

AD/A 022 578

U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF

SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH AMERICAN COASTAL MARINE AREAS - REVISED

PACIFIC COAST

VOLUME 6

AREA 36 - POINT ARENA

AREA 37 - EUREKA

AREA 38 - CAPE BLANCO

AREA 39 - NEWPORT

AREA 40 - ASTORIA

AREA 41 - VANCOUVER ISLAND SW



REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Prepared under the direction of the U.S. Naval Weather Service Command
by the National Climatic Center, Federal Building, Asheville, N.C. 28801.

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) U.S. Naval Weather Service Command, Summary of Synoptic Meteorological Observations (SSMO) for North American Coastal Marine Areas- Revised, Volume 6		5. TYPE OF REPORT & PERIOD COVERED Revised Report for the general period 1870-1974
7. AUTHOR(s) Naval Weather Service Detachment, Asheville		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS National Climatic Center, Federal Building Asheville, N. C. 28801		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Director, Naval Oceanography and Meteorology Washington Navy Yard Washington, D. C.		10. PROGRAM ELEMENT PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Naval Weather Service Detachment Federal Building, Asheville, N. C.		12. REPORT DATE May 1976
		13. NUMBER OF PAGES 474 483
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Volume 6 updates Areas 26-31 published May 1970, AD 710 771, 709 939, and AD 710 829		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Marine Climatology, Coastal Marine Summary Maps and Tables, Pacific Coast, Point Arena, Eureka, Cape Blanco, Newport, Astoria, and Vancouver Island SW		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.		

DD FORM 1473

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EDITION OF 1 NOV 65 IS OBSOLETE

S/N 0102-LF-014-6601

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

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Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Okras.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

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Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

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WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75}	61-70
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25}	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75}	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		40	>19.75 to 20.25}	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		41	>20.25 to 20.75}	
			24	>11.75 to 12.25}		42	>20.75 to 21.25}	
			25	>12.25 to 12.75}		43	>21.25 to 21.75}	71-86
			26	>12.75 to 13.25}	41-48	44	>21.75 to 22.25}	
			27	>13.25 to 13.75}		45	>22.25 to 22.75}	
			28	>13.75 to 14.25}		46	>22.75 to 23.25}	
			29	>14.25 to 14.75}		47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87
						Indeterminate=INDET		

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1869-1974

JANUARY

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	1.0	2.1	.0	.0	.0	.3	4.6	.8	.3	3.0	.3	2.6	.3	86.2
NE	.0	.0	1.1	.0	.0	.0	.0	1.1	.2	.0	6.1	.0	13.3	.0	79.4
E	3.0	.0	.4	.0	.0	.0	.0	3.5	.3	.0	11.9	.0	22.4	.8	61.0
SE	10.3	1.8	3.4	.0	.0	.0	.0	15.0	1.6	.0	4.7	.0	9.6	.0	69.1
S	16.2	2.9	11.7	.0	.0	.0	.0	28.5	2.9	.0	8.2	.9	4.6	.0	54.9
SW	10.9	5.1	6.2	.0	.0	.0	.0	21.7	3.1	.0	5.9	.1	6.7	.0	62.5
W	3.4	2.2	1.4	.0	.0	.0	.6	7.6	2.1	1.1	5.1	1.1	3.5	.0	78.1
NW	3.0	1.5	2.3	.0	.0	.0	.0	6.2	1.3	.0	3.3	.0	4.3	.0	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7	.0	.7	.0	.0	.0	.0	7.4	.7	.0	14.1	.0	3.4	.0	74.8
TOT PCT	6.3	1.7	3.7	.0	.0	.0	.1	11.2	1.5	.1	6.7	.3	7.4	.1	72.7
TOT OBS:	2243														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	6.4	2.0	3.8	.0	.0	.0	.0	12.1	.5	.2	4.1	.6	7.8	.2	74.6
0600	6.5	2.9	4.1	.0	.0	.0	.0	12.6	2.9	.0	3.3	.3	2.1	.0	76.8
1200	6.6	1.6	3.3	.0	.0	.0	.3	11.4	1.4	.2	10.2	.0	8.3	.3	68.4
1800	5.8	.9	3.5	.0	.0	.0	.0	9.3	1.8	.2	7.3	.2	8.5	.0	72.8
TOT PCT TOT OBS:	6.3 2276	1.7	3.6	.0	.0	.0	.1	11.2	1.5	.1	6.9	.3	7.3	.1	72.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.8	5.5	6.9	3.7	.6	.0		17.6	15.6		19.9	10.0	21.8	19.9	22.9	14.1	26.8	11.9
NE	1.2	2.9	1.6	.1	.0	.0		5.7	8.5		4.9	4.4	4.3	5.7	6.1	7.8	7.3	3.1
E	2.1	5.3	2.6	.0	.0	.0		10.0	7.8		9.0	11.3	2.8	6.1	4.2	18.2	4.5	16.3
SE	1.4	5.1	3.8	1.4	.4	.0		12.1	12.6		12.1	15.4	9.7	8.3	9.6	13.1	11.3	14.1
S	1.6	4.7	4.7	2.1	.6	.1		13.8	13.9		13.1	10.3	20.5	14.4	13.2	11.8	15.3	13.8
SW	.7	4.7	2.5	.9	.2	.0		9.0	11.5		9.2	8.5	9.4	10.4	9.3	5.7	8.5	11.6
W	.9	3.8	3.0	.4	.1	.0		8.1	10.9		8.3	9.7	6.4	8.9	8.4	8.5	8.7	6.6
NW	1.4	6.2	6.8	2.5	.3	.0		17.1	13.4		19.1	19.5	20.6	18.8	19.5	11.9	16.4	14.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.6	.0		4.5	11.0	4.6	7.6	6.8	8.9	3.2	6.3
TOT OBS	429	981	818	286	58	6	2578		11.6		404	309	282	132	353	393	278	447
TOT PCT	16.6	38.1	31.7	11.1	2.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.7	8.0	5.2	1.7	.0		17.6	15.6	15.6	21.1	18.3	16.8		
NE	2.5	2.7	.4	.0	.0		5.7	8.5	4.7	4.8	7.0	5.9		
E	4.8	4.8	.5	.0	.0		10.0	7.8	10.0	3.9	11.6	11.8		
SE	3.8	5.1	2.2	1.0	.1		12.1	12.6	13.5	9.3	11.5	13.0		
S	3.7	5.3	3.3	1.2	.2		13.8	13.9	11.9	18.5	12.5	14.4		
SW	2.8	4.1	1.6	.4	.0		9.0	11.5	8.9	9.7	7.4	10.4		
W	2.6	4.0	1.3	.1	.1		8.1	10.9	8.9	7.2	8.5	7.4		
NW	3.7	8.3	4.1	1.1	.0		17.1	13.4	19.2	20.0	15.5	15.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	6.6						6.6	.0	7.3	5.6	7.9	5.1		
TOT OBS	893	1089	477	147	12	2578		11.6	713	394	746	725		
TOT PCT	33.1	42.2	16.5	5.7	.5		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1869-1974

JANUARY

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.3	11.9	38.0	29.0	10.9	2.4	.4	11.4	100.0	713
06009	5.6	8.3	33.8	34.5	16.0	3.3	.5	13.7	100.0	394
12015	7.9	10.3	37.9	32.7	9.2	1.9	.0	11.0	100.0	746
18021	5.1	9.9	40.6	31.9	10.5	1.9	.1	11.3	100.0	725
TOT	170	259	981	818	286	98	6	11.6		2378
PCT	6.6	10.0	38.1	31.7	11.1	2.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	11.6	3.1	6.7	3.4		3.5
NE	2.1	.8	1.5	.8		4.0
E	1.1	.4	.5	1.6		4.8
SE	1.5	1.1	1.8	6.4		6.2
S	.6	1.1	3.3	9.4		6.9
SW	.7	.9	3.1	5.0		6.5
W	1.6	1.4	2.8	2.2		5.2
NW	7.0	3.7	5.6	3.2		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.5	.5	1.4		4.2
TOT OBS	241	113	224	292	870	4.9
TOT PCT	27.7	13.0	25.7	33.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.6	.0	.6	2.0	2.5	1.8	.7	.2	.0	.0	.2	16.3
.0	.0	.1	.4	.6	.2	.0	.0	.0	.0	.3	3.6
.1	.0	.2	.7	.6	.2	.1	.0	.0	.0	.1	1.9
.9	.1	.7	1.5	1.6	1.0	.4	.1	.1	.1	.5	3.8
1.2	.4	1.1	2.4	4.0	1.4	.4	.1	.2	.1	.2	3.2
.6	.2	.4	1.7	1.4	1.7	.5	.0	.3	.0	.0	2.8
.5	.0	.6	.9	1.2	.9	.0	.1	.0	.1	.1	3.8
.4	.0	.6	.9	2.6	1.8	.1	.2	.2	.1	.1	12.5
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.8	.0	.0	.2	.0	.1	.1	.1	.1	.2	.2	2.0
43	6	37	93	127	79	20	8	9	14	434	870
4.9	.7	4.3	10.7	14.6	9.1	2.3	.9	1.0	1.6	49.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >5000	2.6	3.2	3.2	3.3	3.3	3.3	3.3	3.3
= OR >3500	4.2	5.4	5.4	5.6	5.6	5.6	5.6	5.6
= OR >2000	11.4	14.2	14.4	14.6	14.6	14.6	14.6	14.6
= OR >1000	20.6	27.3	28.8	29.2	29.3	29.4	29.4	29.4
= OR >600	26.2	36.6	38.5	39.2	39.4	39.4	39.9	39.9
= OR >300	28.0	39.6	42.5	43.3	43.6	43.6	44.1	44.1
= OR >150	28.0	39.9	42.9	43.8	44.2	44.2	44.6	44.6
= OR > 0	28.8	41.7	45.3	46.6	47.3	47.8	49.4	49.4
TOTAL	253	366	398	409	415	420	434	434

TOTAL NUMBER OF OBS: 878

PCT FREQ NH <5/8: 50.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
19.7	7.5	11.2	6.7	5.1	6.0	8.3	8.3	23.6	3.5	937

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1869-1974

JANUARY

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.1	.1	*	*	.0	.0	.4	
	NO PCP	.2	.1	.6	.3	.4	.1	*	.2	.0	.3	2.2	
	TOT %	.3	.1	.6	.3	.5	.2	.1	.3	.0	.3	2.6	
1/2<1	PCP	.1	.0	*	.1	.2	.2	.0	.0	.0	.0	.6	
	NO PCP	.2	.1	.7	.1	.7	.2	.1	*	.0	.1	2.4	
	TOT %	.3	.1	.7	.2	.9	.4	.1	*	.0	.1	3.0	
1<2	PCP	.0	.0	.0	.1	.7	.1	*	.0	.0	.0	.9	
	NO PCP	.2	.3	.8	.1	.2	.2	.1	.1	.0	.1	2.1	
	TOT %	.2	.3	.8	.2	.9	.3	.1	.1	.0	.1	3.0	
2<5	PCP	*	.0	.1	.5	1.0	.4	*	.1	.0	*	2.1	
	NO PCP	.3	.4	1.3	.8	1.0	.4	.4	.5	.0	.4	5.5	
	TOT %	.3	.4	1.4	1.2	2.0	.8	.4	.6	.0	.4	7.6	
5<10	PCP	.4	.1	.2	.8	1.7	.9	.4	.5	.0	.1	5.1	
	NO PCP	3.2	1.4	2.8	2.8	2.6	2.2	1.8	3.1	.0	1.8	21.6	
	TOT %	3.6	1.4	3.0	3.6	4.3	3.1	2.1	3.6	.0	1.9	26.7	
10+	PCP	.1	.0	.1	.4	.5	.4	.1	.3	.0	.4	2.2	
	NO PCP	12.3	3.5	4.1	6.0	5.5	4.2	5.0	10.8	.0	3.4	54.8	
	TOT %	12.4	3.5	4.2	6.3	5.9	4.6	5.1	11.1	.0	3.8	57.1	
TOT OBS													2236
TOT PCT													
17.2 5.9 10.7 11.9 14.4 9.5 8.0 15.8 .0 6.7 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.2	*	.0	*	*	.1	.0	.3	.8	
	4-10	.1	*	.1	.1	.1	.1	*	.3	.0		.8	
	11-21	.1	.1	.3	.1	.2	.1	.1	*	.0		.9	
	22+	.0	.0	.0	*	.1	.1	.0	.0	.0		.2	
	TOT %	.3	.1	.5	.2	.5	.3	.1	.4	.0	.3	2.7	
1/2<1	0-3	.1	.1	.1	.1	.2	*	*	*	.0	.1	.7	
	4-10	.1	*	.3	.1	.2	.2	*	.0	.0		.9	
	11-21	.2	.0	.3	*	.2	.1	*	*	.0		1.0	
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0		.2	
	TOT %	.4	.1	.7	.2	.8	.4	.1	*	.0	.1	2.9	
1<2	0-3	.1	.1	.2	.0	*	.0	*	.1	.0	.1	.6	
	4-10	.1	.2	.4	.2	.2	.2	.1	.2	.0		1.5	
	11-21	.1	*	.3	.1	.3	.1	.1	*	.0		.9	
	22+	.0	.0	*	.2	.4	*	.0	.0	.0		.6	
	TOT %	.3	.3	1.0	.4	.9	.3	.2	.2	.0	.1	3.7	
2<5	0-3	.1	*	.2	.1	.1	.1	.2	.3	.0	.5	1.8	
	4-10	.2	.3	.8	.5	.6	.3	.1	.2	.0		3.0	
	11-21	.1	*	.4	.3	.6	.3	.1	.1	.0		1.9	
	22+	.0	.0	.0	.4	.6	.1	.0	*	.0		1.2	
	TOT %	.3	.3	1.4	1.3	1.9	.8	.4	.7	.0	.5	7.8	
5<10	0-3	.2	.4	.6	.3	.4	.2	.2	.3	.0	1.8	4.4	
	4-10	1.1	.6	1.8	1.6	1.3	1.3	.9	1.2	.0		9.7	
	11-21	1.5	.5	.4	.9	1.5	1.0	.8	1.3	.0		7.9	
	22+	.6	.0	*	.6	.9	.4	.2	.7	.0		3.4	
	TOT %	3.4	1.4	2.8	3.5	4.2	2.9	2.0	3.5	.0	1.8	25.4	
10+	0-3	.3	.7	.8	.8	.9	.4	.4	.7	.0	3.7	8.7	
	4-10	3.6	1.7	2.2	2.7	2.3	2.6	2.3	3.8	.0		21.1	
	11-21	5.1	1.1	1.0	2.5	2.1	.9	2.0	5.1	.0		19.8	
	22+	3.8	.1	*	.6	.6	.4	.3	2.0	.0		7.9	
	TOT %	12.7	3.6	4.1	6.6	5.9	4.3	4.9	11.7	.0	3.7	57.5	
TOT OBS													2422
TOT PCT													
17.3 5.8 10.5 12.3 14.2 9.0 7.8 16.5 .0 6.6 100.0													

JANUARY

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1869-1974AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.1	.9	4.8	10.0	14.8	8.3	1.7	.9	.4	1.7	46.7	53.3	229
06009	4.1	1.4	2.7	10.4	12.6	6.8	2.7	.9	.9	.5	42.8	57.2	222
12015	5.2	.4	4.8	9.5	15.6	7.8	1.7	.4	1.7	1.3	48.5	51.5	231
18021	6.5	.0	4.3	10.9	14.3	11.7	2.6	1.3	.9	2.6	53.2	44.8	230
TOT	43	6	38	93	131	79	20	8	9	14	441	471	912
PCT	4.7	.7	4.2	10.2	14.4	8.7	2.2	.9	1.0	1.5	48.4	51.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.7	2.9	4.5	8.3	30.7	51.9	688
06009	2.1	1.1	1.9	5.9	23.0	66.0	374
12015	3.9	3.4	4.1	8.6	24.5	55.6	711
18021	2.8	3.8	3.4	7.3	21.5	61.2	683
TOT	67	74	90	190	618	1417	2456
PCT	2.7	3.0	3.7	7.7	25.2	57.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.1	10.8	22.9	25.6	51.6	229
06009	3.8	8.0	20.8	22.6	56.6	212
12015	5.4	11.2	22.3	27.7	50.0	224
18021	6.8	11.4	24.7	33.3	42.0	219
TOT	42	91	199	240	499	878
PCT	4.8	10.4	22.7	27.3	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
70/74	.1	.0	.0	.1	.1	.0	.0	.0	3	.2
65/69	.1	.1	.2	.1	.0	.1	.1	.0	12	.7
60/64	.2	.0	.2	.6	.5	1.1	.8	.2	63	3.6
55/59	.1	.1	.3	1.0	2.1	4.4	8.4	5.2	375	21.6
50/54	.0	.1	.4	2.0	5.6	7.4	15.7	10.5	724	41.7
45/49	.0	.1	.3	1.1	3.7	6.3	5.9	6.6	418	24.1
40/44	.0	.0	.0	.2	.9	.8	2.9	1.9	115	6.6
35/39	.0	.0	.0	.0	.0	.2	.3	.9	24	1.4
TOTAL	7	5	25	87	224	352	594	441	1735	100.0
PCT	.4	.3	1.4	5.0	12.9	20.3	34.2	25.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0
65/69	.2	.1	.1	.1	.1	.1	.0	.1	.0	.1
60/64	.4	.2	.6	.6	.6	.3	.3	.5	.0	.1
55/59	2.2	1.1	1.5	3.3	4.9	3.2	1.7	2.6	.0	1.2
50/54	9.2	2.2	3.7	4.8	5.3	3.6	3.8	7.3	.0	1.8
45/49	5.2	2.0	3.3	2.3	2.4	.9	1.9	4.2	.0	2.0
40/44	.6	.7	1.9	1.3	.6	.2	.4	.8	.0	.1
35/39	.1	.1	.8	.1	.0	.0	.1	.2	.0	.1
TOTAL	18.0	6.3	11.9	12.4	13.8	8.3	8.2	15.8	.0	5.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	65	60	53	45	42	41	53.0	718
06009	64	59	57	52	45	42	39	51.3	397
12015	64	61	56	50	40	36	35	49.8	749
18021	78	66	60	52	44	40	38	52.4	721
TOT	78	65	59	52	45	39	35	51.6	2585

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.8	11.6	16.6	18.1	37.3	13.6	77	493		
06009	.0	2.4	9.4	25.6	33.9	28.7	83	254		
12015	.2	2.8	9.8	14.9	34.9	37.3	84	498		
18021	.4	8.5	14.0	24.8	30.9	21.3	79	508		
TOT	7	120	226	354	601	443	81	1753		

JANUARY

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1869-1974AREA 0036 POINT ARENA
38.3N 123.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	39	37	41	45	49	53	57	61	65	69	73	TOT	N FOG	NO FOG
36	40	44	48	52	56	60	64	68	72	76				
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	4	.1	.2
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	5	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.4	.2	.1	.1	.0	15	.0	.9
9/10	.0	.0	.0	.0	.0	.8	.6	.1	.1	.0	.0	25	.1	1.4
7/8	.0	.0	.0	.0	.2	.7	.8	.7	.0	.0	.0	39	.1	2.2
6	.0	.0	.0	.0	.4	.4	.5	.1	.1	.0	.0	24	.1	1.3
5	.0	.0	.0	.0	.2	.2	.7	.1	.1	.0	.0	23	.1	1.3
4	.0	.0	.0	.0	.4	1.2	1.4	.2	.0	.0	.0	54	.3	3.0
3	.0	.0	.0	.3	.3	2.3	1.3	.1	.0	.0	.0	72	.2	4.2
2	.0	.0	.1	.5	1.0	4.0	1.0	.1	.0	.0	.0	109	.5	6.1
1	.0	.0	.0	.3	1.2	5.6	1.3	.1	.0	.0	.0	140	.4	8.1
0	.0	.0	.1	.5	4.4	8.6	1.2	.0	.0	.0	.0	212	.8	12.0
-1	.0	.0	.1	.4	4.6	4.1	.3	.1	.0	.0	.0	159	.7	9.0
-2	.0	.0	.4	1.6	6.5	4.5	.2	.1	.0	.0	.0	218	.5	12.7
-3	.0	.0	.2	1.9	5.3	1.7	.1	.0	.0	.0	.0	146	.5	8.3
-4	.0	.0	.1	2.5	3.8	.5	.1	.0	.0	.0	.0	115	.4	6.6
-5	.0	.1	.4	2.4	2.3	.4	.2	.1	.0	.0	.0	94	.7	5.0
-6	.0	.2	.3	2.1	1.5	.1	.0	.0	.0	.0	.0	69	.1	4.1
-7/-8	.1	.2	.7	2.0	.9	.1	.0	.0	.0	.0	.0	65	.3	3.6
-9/-10	.2	.2	.4	.8	.4	.0	.0	.0	.0	.0	.0	35	.2	1.9
-11/-13	.0	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	13	.1	.7
-14/-16	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	8	.2	.3
TOTAL	7		52		554		167		10		3	1648	107	1541
PCT	.4	1.0	3.2	15.5	33.6	33.1	10.1	1.9	.6	.2	.2	100.0	6.5	93.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.6	2.0	.0	.0	.0	4.6	.0	1.3	.4	.0	.0	.0	1.9
3-4	.0	1.4	5.5	.4	.0	.0	7.3	.0	.4	.4	.0	.0	.0	.9
5-6	.0	.7	2.7	1.0	.5	.0	4.9	.0	.0	.4	.1	.0	.0	.7
7	.0	.2	1.4	.9	.7	.0	3.3	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.2	.7	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	12.1	4.2	1.4	.0	23.4	.0	2.7	2.2	.1	.0	.0	5.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.0	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.3
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	.7	1.6	.0	.0	.0	2.2
3-4	.0	.9	.2	.0	.0	.0	1.1	.0	.3	1.7	.0	.0	.0	2.0
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.2	1.5	.1	.0	.0	1.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6	1.2	.2	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2	.6
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	2.2	.0	.0	.0	4.0	.2	1.3	5.3	2.2	.3	.2	9.7

PERIOD: (OVER-ALL) 1963-1974

JANUARY
TABLE 18 (CONT)

AREA 0036 POINT ARENA
38.5N 123.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.9	.0	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.4	2.2	.0	.0	.0	2.7	.0	1.2	.4	.0	.0	.0	1.7
3-4	.0	.7	2.3	.0	.0	.0	3.0	.0	.5	1.1	.2	.0	.0	1.9
5-6	.0	.0	2.4	.0	.0	.0	3.1	.0	.5	.7	.6	.0	.0	1.8
7	.0	.0	1.9	1.9	.0	.0	3.8	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.1	.0	.2	.0	.3
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.0	.0	.1
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	15.5	.0	3.0	2.5	1.7	.3	.0	7.5
TOT PCT	.2	2.1	8.9	4.0	.4	.0								

MGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.4	.1	1.1	.2	.0	.0	.0	1.4	
1-2	.0	1.1	.6	.0	.0	.0	1.7	.0	2.9	1.1	.0	.0	.0	4.0	
3-4	.0	.2	1.4	.0	.0	.0	1.6	.0	2.1	4.0	1.1	.0	.0	7.1	
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.3	2.4	.4	.5	.0	3.5	
7	.0	.0	.4	.2	.0	.0	.5	.0	.5	2.1	.9	.0	.0	3.5	
8-9	.0	.0	.3	.0	.0	.0	.7	.0	.0	.3	.8	.1	.0	1.2	
10-11	.0	.0	.7	.0	.0	.0	.2	.0	.0	.7	.3	.0	.0	1.1	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	.2	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	7.6	.1	8.8	11.1	3.9	.8	.0	22.8	95.8
TOT PCT	.2	2.1	4.9	.5	.0	.0									

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	4.7	.2	.0	.0	.0	9.7	
1-2	.0	10.9	9.2	.0	.0	.0	20.1	
3-4	.5	6.5	16.6	1.7	.0	.0	25.3	
5-6	.0	2.2	11.9	2.5	1.0	.0	17.6	
7	.0	1.2	7.9	5.7	1.0	.0	15.9	
8-9	.0	.0	1.0	3.2	.2	.0	4.5	
10-11	.0	.0	1.7	1.2	.5	.0	3.5	
12	.0	.0	.2	1.2	.0	.0	1.5	
13-16	.0	.0	.0	1.0	.5	.2	1.7	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	403
TOT PCT	5.2	25.6	49.1	16.6	3.2	.2	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																					
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	6.6	9.2	6.7	3.5	1.1	.5	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	244	7
6-7	.0	.4	5.6	8.5	5.8	4.6	2.4	.7	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	246	7
8-9	.0	.4	1.7	4.0	5.3	2.5	2.9	1.5	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	161	8
10-11	.0	.2	1.0	1.3	1.6	1.2	1.2	.6	1.9	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	79	9
12-13	.0	.0	.1	.4	.7	.0	.6	.1	1.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	29	11
>13	.0	.0	.0	.2	.4	.1	.7	.1	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	11
INDEX	1.5	.2	.8	1.1	1.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	4
TOTAL	25	64	152	183	193	80	71	26	48	16	5	1	0	0	0	0	0	0	0	824	6
PCT	3.0	7.8	18.4	22.2	18.6	9.7	8.6	3.2	5.8	1.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1960-1974

FEBRUARY

AREA 0036 POINT ARENA
38.4N 122.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.9	.7	1.4	.0	.0	.0	.0	3.0	.4	.0	6.4	.2	5.5	.0	84.5
NE	5.9	.2	1.3	.0	.0	.0	.0	7.4	.0	.0	6.1	.0	13.3	.0	73.1
E	8.8	.4	1.1	.0	.0	.0	.0	10.2	.0	.0	7.2	.0	13.3	.0	67.2
SE	14.0	1.6	7.5	.0	.0	.0	.0	22.9	3.7	.0	5.4	.3	5.8	.0	61.8
S	10.9	2.4	4.7	.0	.0	.0	.3	17.9	2.8	.3	8.9	.0	6.8	.0	63.3
SW	9.8	3.5	1.9	.0	.0	.0	.0	15.1	1.7	.0	4.1	.0	7.7	.0	71.4
W	3.6	.7	1.7	.0	.0	.0	.0	6.0	2.1	.0	5.2	.3	7.6	.0	78.8
NW	1.3	1.0	3.0	.0	.0	.0	.0	5.3	.8	.0	7.8	.7	3.1	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1	.0	.0	.0	.0	.0	.0	4.1	.0	.0	14.2	.0	4.7	.0	77.0
TOT PCT	5.6	1.3	2.8	.0	.0	.0	*	9.7	1.4	*	7.0	.3	6.4	.0	75.2
TOT OBS:	2736														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
0000	6.3	1.8	2.1	.0	.0	.0	.1	10.6	1.0	.0	4.9	.4	5.2	.0		78.0
0600	3.9	1.0	4.9	.0	.0	.0	.0	9.6	.7	.0	8.6	.3	.5	.0		80.1
1200	5.8	1.4	3.0	.0	.0	.0	.0	10.1	1.8	.1	9.1	.3	8.8	.0		69.8
1800	5.3	.7	2.2	.0	.0	.0	.0	8.1	1.6	.0	6.8	.1	7.9	.0		75.3
TOT PCT TOT OBS:	5.6 2783	1.3	2.8	.0	.0	.0	*	9.6	1.4	*	7.2	.3	6.3	.0		75.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	6.3	6.6	3.2	.6	*		18.0	14.2		17.1	13.5	24.4	17.8	18.3	13.4	27.1	15.0
NE	1.2	2.0	.9	.1	*	.0		4.2	7.2		2.8	3.4	2.8	4.9	3.3	6.3	3.9	5.1
E	1.3	2.8	1.0	.1	*	.0		3.2	7.6		4.6	3.2	1.1	4.7	3.8	11.5	3.3	5.6
SE	1.9	4.1	2.5	1.5	.3	*		10.4	12.0		8.1	8.1	11.8	9.1	11.1	13.2	11.6	10.0
S	2.0	4.8	3.8	1.4	.2	.1		12.3	11.9		11.1	10.3	14.5	7.9	12.6	11.1	14.3	14.2
SW	2.3	3.2	2.3	.4	.1	.0		10.4	8.3		13.1	13.9	4.4	11.6	9.3	9.5	5.6	13.0
W	1.5	3.1	3.3	.4	.0	.0		10.3	9.3		14.2	13.6	6.0	8.3	6.3	9.5	5.8	12.1
NW	1.4	8.6	9.6	3.6	.5	.0		23.7	13.6		25.0	25.9	28.2	31.9	25.7	17.2	23.4	21.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.5							5.5	.0		3.9	6.1	6.9	3.8	9.6	5.9	4.3	3.8
TOT OBS	560	1189	917	331	52	4	3053		11.0		362	312	306	159	364	489	311	550
TOT PCT	18.3	38.9	30.0	10.8	1.7	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WMO DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.0	7.6	4.9	1.5	0		18.0	14.2	15.8	22.2	16.7	19.4		
NE	2.4	1.6	.1	0	.0		4.2	7.2	3.0	3.3	5.2	4.7		
E	2.9	2.0	.3	.1	0		3.2	7.6	4.1	2.4	8.2	4.9		
SE	3.8	3.8	2.0	.7	.1		10.4	12.0	8.1	10.9	12.3	10.6		
S	4.5	4.5	2.4	.7	.1		12.3	11.9	10.8	12.2	11.7	14.3		
SW	3.3	3.9	.8	.2	.0		10.4	8.3	13.4	6.9	9.4	10.3		
W	4.1	4.6	1.6	0	.0		10.3	9.3	14.7	6.8	8.1	9.8		
NW	3.3	10.7	6.2	1.5	.0		23.7	13.6	25.3	25.3	20.8	21.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.5						5.5	.0	4.7	5.8	7.5	4.1		
TOT OBS	1157	1183	962	143	8	3053		11.0	874	465	893	861		
TOT PCT	37.9	38.7	18.4	4.7	.3		100.0		100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1860-1974

AREA 0036 POINT ARENA
38.4N 123.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000	4.7	12.1	38.9	31.4	10.4	2.3	.2	11.3	100.0	874
0600	5.8	7.5	30.8	40.2	13.8	1.9	.0	13.1	100.0	465
1200	7.5	16.4	40.0	25.8	8.8	1.5	.0	9.7	100.0	853
1800	4.1	13.0	42.4	27.4	11.7	1.2	.2	11.0	100.0	861
TOT	167	393	1189	917	331	52	4	11.0		3053
PCT	5.5	12.9	38.9	30.0	10.8	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	10.7	3.9	6.3	3.1	3.4	3.4
NE	1.7	.6	.6	.6	3.3	3.3
E	.7	.5	.6	1.5	5.4	5.4
SE	1.2	.6	1.3	7.5	6.7	6.7
S	1.0	1.3	3.3	8.9	6.6	6.6
SW	.9	1.2	1.2	2.1	5.4	5.4
W	1.4	.6	2.1	2.0	5.1	5.1
NW	10.4	4.1	7.2	5.4	3.9	3.9
VAR	.0	.0	.0	.0	.0	.0
CALM	1.6	.6	1.7	2.3	4.9	4.9
TOT DBS	316	142	257	349	1064	4.7
TOT PCT	29.7	13.3	24.2	32.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.7	2.3	1.9	1.6	.6	.2	.1	.2	16.1	
NE	.2	.0	.2	.3	.2	.0	.0	.0	.0	.0	2.6	
E	.2	.1	.0	.1	.4	.5	.0	.0	.0	.0	1.8	
SE	.9	.3	.4	1.4	3.2	1.0	.4	.2	.1	.1	2.6	
S	1.6	.3	.9	1.6	3.5	1.5	.3	.2	.1	.1	3.8	
SW	.1	.0	.2	.7	.9	.5	.1	.1	.0	.1	2.6	
W	.6	.1	.1	1.1	1.0	.5	.3	.0	.0	.0	2.4	
NW	1.0	.0	.4	1.8	4.2	1.7	.8	.0	.0	.5	16.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.3	.2	.8	.0	.0	.0	.0	3.9	
TOT DBS	64	9	32	101	166	87	27	7	3	12	556	1064
TOT PCT	6.0	.8	3.0	9.5	15.6	8.2	2.5	.7	.3	1.1	52.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	3.3	4.4	4.5	4.5	4.5	4.5	4.5	4.5
>2000	9.0	12.1	12.6	12.8	12.8	12.8	12.8	12.8
>1000	18.6	25.8	27.9	28.2	28.2	28.2	28.2	28.2
>600	24.5	34.5	37.3	37.7	37.7	37.7	37.7	37.7
>300	25.4	36.6	39.7	40.4	40.5	40.5	40.5	40.6
>150	25.4	36.9	40.2	40.9	41.4	41.4	41.4	41.5
>0	25.8	38.4	42.2	43.7	44.9	46.0	47.0	47.3
TOTAL	278	414	455	471	484	496	507	510

TOTAL NUMBER OF DBS: 1078

PCT FREQ NM <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
20.6	7.0	9.1	7.9	6.4	6.3	7.1	7.8	22.9	4.8 1149

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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP .0 NO PCP .4 TOT % .4	.0 .1 .1	* .2 .2	* .2 .2	.1 .4 .5	.0 .1 .1	.0 .2 .2	.1 .3 .5	.0 .6 .0	.0 .6 .6	.2 2.5 2.7	
1/2<1	PCP .0 NO PCP .3 TOT % .3	.0 .1 .1	.1 .3 .4	.1 .2 .4	.2 .3 .5	.2 .2 .4	* .1 .2	* .6 .6	.0 .0 .0	.0 .1 .1	.6 2.4 3.0	
1<2	PCP .0 NO PCP .4 TOT % .4	.0 .1 .1	.0 .1 .1	.4 .1 .5	.2 .3 .5	.1 .3 .3	.1 .3 .5	.1 .4 .5	.0 .0 .0	.0 .1 .1	.9 2.1 3.0	
2<5	PCP .2 NO PCP .9 TOT % 1.1	* .3 .3	.2 .3 .5	.6 .6 1.2	.6 .8 1.4	.4 .7 1.1	.1 1.1 1.2	.3 1.1 1.4	.0 .0 .0	* .1 .2	2.5 5.9 8.3	
5<10	PCP .2 NO PCP 3.4 TOT % 3.6	.2 .7 .9	.2 1.5 1.7	.9 3.1 4.0	.8 3.6 4.4	.8 3.3 3.7	.2 3.6 3.8	.4 5.0 5.4	.0 .0 .0	.1 1.4 1.5	3.5 25.5 29.0	
10+	PCP .2 NO PCP 12.1 TOT % 12.3	.1 2.6 2.7	* 2.3 2.3	.4 3.8 4.3	.3 4.8 5.1	.5 4.2 4.8	.1 4.6 4.7	.3 14.6 14.9	.0 2.8 .0	.1 2.8 2.9	2.0 51.9 53.9	
	TOT OBS TOT PCT	18.0 4.3	5.2	10.5	12.5	10.3	10.5	23.3	.0	5.4	100.0	2734

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL GSS
<1/2	0-3	.1	.0	.1	.1	.1	.1	.1	.1	.0	.7	1.4	
	4-10	.2	.1	.1	.1	.2	.0	.1	.2	.0	.9		
	11-21	.1	.0	.0	.0	.1	.0	.0	.1	.0	.4		
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1		
	TOT %	.4	.1	.2	.2	.5	.1	.1	.4	.0	.7	2.8	
1/2<1	0-3	.1	.1	.3	.2	.2	.1	.1	.1	.0	.1	1.2	
	4-10	.1	.0	.0	.1	.1	.0	.0	.2	.0	.7		
	11-21	.1	.0	.0	.0	.2	.1	.1	.2	.0	.7		
	22+	.0	.0	.0	.1	.1	.0	.0	.1	.0	.3		
	TOT %	.3	.1	.3	.3	.6	.4	.2	.6	.0	.1	3.0	
1<2	0-3	.2	.0	.0	.0	.1	.1	.1	.1	.0	.1	.7	
	4-10	.2	.1	.1	.3	.2	.2	.4	.3	.0	1.7		
	11-21	.0	.0	.0	.1	.2	.0	.1	.2	.0	.6		
	22+	.0	.0	.1	.2	.2	.0	.0	.0	.0	.5		
	TOT %	.4	.2	.2	.6	.6	.3	.6	.5	.0	.1	3.5	
2<5	0-3	.1	.1	.2	.1	.3	.3	.2	.1	.0	.2	1.5	
	4-10	.7	.1	.3	.5	.3	.6	.6	.6	.0	3.7		
	11-21	.2	.1	.1	.3	.4	.2	.3	.6	.0	2.3		
	22+	.0	.0	.1	.3	.4	.1	.0	.1	.0	1.0		
	TOT %	1.0	.3	.6	1.2	1.4	1.1	1.2	1.4	.0	.2	8.5	
5<10	0-3	.2	.3	.3	.6	.6	.6	.4	.2	.0	1.5	4.6	
	4-10	1.6	.4	.8	1.5	1.7	1.9	1.8	2.6	.0	12.4		
	11-21	1.2	.2	.5	1.0	1.3	.9	1.3	1.7	.0	7.9		
	22+	.5	.0	.0	.8	.6	.2	.2	.8	.0	3.0		
	TOT %	3.5	.9	1.6	3.8	4.2	3.6	3.6	5.2	.0	1.5	26.1	
10+	0-3	.7	.7	.4	1.0	.9	1.1	.7	.8	.0	3.0	9.2	
	4-10	3.5	1.2	1.6	1.9	2.2	2.3	2.2	4.8	.0	19.6		
	11-21	5.0	.6	.4	1.1	1.6	1.0	1.4	6.7	.0	17.7		
	22+	3.3	.1	.0	.2	.4	.2	.2	3.0	.0	7.7		
	TOT %	12.5	2.6	2.4	4.4	5.0	4.5	4.5	15.2	.0	3.0	54.2	
TOT GSS TOT PCT		18.0	4.2	5.4	10.7	12.3	10.0	10.3	23.6	.0	5.6	100.0	2887

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PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1860-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 51.1	NM <5/8 ANY MGT	TOTAL OBS
00003	7.2	1.8	2.2	9.0	16.2	9.0	2.9	.4	.4	2.2	51.1	48.9	278
06009	5.0	.7	2.2	6.5	14.0	6.8	3.2	.4	.4	.7	39.8	60.2	279
12015	7.1	.4	3.1	7.1	14.9	7.5	2.0	.4	.4	1.2	43.9	56.1	255
18021	4.2	.3	4.2	14.3	15.7	9.1	1.7	1.4	.0	.3	51.2	48.8	287
TOT	64	9	32	102	167	89	27	7	3	12	512	587	1099
PCT	5.8	.8	2.9	9.3	15.2	8.1	2.5	.6	.3	1.1	46.6	53.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.5	3.0	3.1	9.2	29.7	52.4	837
06009	2.7	1.1	1.8	6.4	21.8	66.1	440
12015	4.0	4.7	4.5	8.3	29.4	49.1	817
18021	2.1	2.4	3.6	8.6	27.8	55.5	841
TOT	84	88	101	245	819	1598	2935
PCT	2.9	3.0	3.4	8.3	27.9	54.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.3	12.0	25.2	28.5	46.4	274
06009	5.1	8.8	20.1	22.3	57.7	274
12015	7.1	10.7	21.8	24.2	54.0	252
18021	4.3	8.6	24.5	28.1	47.5	278
TOT	64	108	247	278	553	1078
PCT	5.9	10.0	22.9	25.8	51.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	*	.1	.1	.0	*	.0	.0	7	.3
65/69	.3	.2	.5	.2	.1	.1	*	.0	30	1.3
60/64	.2	.6	.9	.7	1.4	1.3	.5	.4	137	6.0
55/59	.1	.1	.6	1.6	2.7	5.5	6.9	5.1	518	22.6
50/54	.0	.1	.7	1.2	5.0	8.7	20.2	13.0	1120	48.9
45/49	.0	.1	.2	.5	1.9	3.1	5.3	6.6	403	17.6
40/44	.0	*	*	*	.4	.1	.7	1.3	62	2.7
35/39	.0	.0	*	.0	.1	.0	.1	.3	12	.5
TOTAL	13	27	73	100	263	430	774	609	2289	100.0
PCT	.6	1.2	3.2	4.4	11.5	18.8	33.8	26.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	*	*	*	*	.0	.0	*	*	.0	.1
65/69	.1	.1	.2	.2	.2	.2	.1	.2	.0	.0
60/64	.7	.3	.2	.3	.6	1.3	1.1	1.2	.0	.3
55/59	2.8	1.1	1.8	2.8	4.2	3.0	2.8	3.8	.0	.5
50/54	9.3	1.7	2.0	5.2	6.1	4.5	5.2	13.0	.0	1.9
45/49	4.2	.6	1.0	1.5	1.1	1.4	1.7	5.0	.0	1.0
40/44	.5	.3	.4	.2	.2	.2	.2	.6	.0	.2
35/39	.1	.1	.0	.0	*	.0	.0	.1	.0	.1
TOTAL	17.8	4.2	5.6	10.3	12.3	10.5	11.1	23.9	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	68	64	54	48	43	44	54.5	878
06009	63	58	56	51	46	42	41	51.3	473
12015	60	58	56	51	44	38	35	50.3	862
18021	71	65	61	53	48	44	39	53.5	873
TOT	72	66	60	52	46	41	35	52.6	3086

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.5	13.4	15.8	21.0	28.2	20.1	76	685
06009	.0	.6	6.8	20.3	41.0	31.3	84	310
12015	.2	4.2	7.1	11.6	38.4	38.5	85	646
18021	.3	11.8	13.8	23.0	31.7	19.4	77	669
TOT	13	200	267	436	780	614	80	2310

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PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1860-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	33	37	41	43	49	53	57	61	65	69	TOT	N	WD
TMP DIF	36	40	44	48	52	56	60	64	68	72		FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	7	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.1	.4	.3	*	18	*	.8
11/13	.0	.0	.0	.0	.0	.0	.4	.5	.4	.0	28	*	1.3
9/10	.0	.0	.0	.0	.0	.1	.7	.7	*	.0	32	.0	1.5
7/8	.0	.0	.0	.0	*	.4	1.7	.5	.0	.0	56	.1	2.6
6	.0	.0	.0	.0	.0	1.2	.9	.1	.0	.0	48	.1	2.1
5	.0	.0	.0	.0	.2	2.1	1.0	*	*	.0	73	.2	3.2
4	.0	.0	.0	.0	.7	2.6	1.2	*	.0	.0	95	.2	4.3
3	.0	.0	.0	.0	1.2	3.0	1.3	.1	.0	.0	117	.4	5.2
2	.0	.0	.0	.1	3.5	3.8	1.3	*	.0	.0	186	.7	8.2
1	.0	.0	.0	.1	3.4	3.9	.8	.0	.0	.0	174	.6	7.6
0	.0	.0	*	.5	6.7	5.4	.4	.0	.0	.0	274	1.2	11.8
-1	.0	.0	*	.7	5.3	3.3	.1	.0	.0	.0	198	.8	8.6
-2	.0	.0	.1	2.6	6.6	2.4	.1	.0	.0	.0	248	1.4	10.4
-3	.0	.0	.0	1.7	5.1	1.2	*	.0	.0	.0	169	.4	7.6
-4	.0	.0	.1	2.1	3.7	.7	.0	.0	.0	.0	138	.3	6.2
-5	.0	*	.1	1.5	1.8	.2	.0	.0	.0	.0	78	.5	3.2
-6	.0	.0	.5	.8	1.0	.1	.0	.0	.0	.0	49	.2	2.1
-7/-8	.0	.3	.4	1.4	1.1	.1	.0	.0	.0	.0	71	.2	3.2
-9/-10	.0	*	.5	.3	.2	.1	.0	.0	.0	.0	26	*	1.2
-11/-13	*	.2	.2	.2	.1	*	.0	.0	.0	.0	18	.1	.8
-14/-16	*	.0	.0	.0	*	.0	.0	.0	.0	.0	2	*	*
TOTAL	2	13	42	254	855	649	211	56	3	2105	103	1942	
PCT	.1	.6	2.0	12.1	40.6	30.8	10.0	2.7	1.0	.1	100.0	7.7	92.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.1	.0	.0	.0	.0	1.5	*	.7	.0	.0	.0	.0	.7
1-2	.2	3.4	.3	.0	.0	.0	3.9	.2	.7	.6	.0	.0	.0	1.5
3-4	.0	2.0	3.7	.3	.0	.0	6.0	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.5	1.6	2.6	.0	.0	4.7	.0	.2	.2	*	.0	.0	.5
7	.0	.0	.5	1.6	.3	.0	2.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	1.3	.3	.0	1.8	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.1	.6	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.5	.0	.9	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.0	6.6	7.1	1.8	.0	23.1	.2	1.9	.9	.3	.1	.0	3.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.1	.0	.0	.0	.0	1.4	.2	.6	.0	.0	.0	.0	.9
1-2	.2	.5	.0	.0	.0	.0	.7	.2	.9	1.1	.0	.0	.0	2.2
3-4	.0	.3	.5	.2	.0	.0	1.0	.0	1.0	1.1	.8	.0	.0	2.8
5-6	.0	.3	.0	.2	.0	.0	.5	.0	*	.4	1.3	.2	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.8	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.8	*	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	.5	.4	.0	.0	3.6	.5	2.8	3.7	4.4	.8	.0	12.0

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY
TABLE 18 (CONT)AREA 0036 POINT ARENA
38.4N 123.7W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.8	.3	.9	.1	.0	.0	.0	.4
1-2	.1	2.6	.7	.0	.0	.0	3.5	.0	1.1	.0	.0	.0	.0	1.1
3-4	.0	.8	1.3	.0	.0	.0	2.1	.0	.3	.6	.0	.0	.0	.9
5-6	.0	.2	1.1	.6	.0	.0	1.9	.0	.2	.8	.0	.0	.0	1.0
7	.0	.0	.9	.3	.0	.0	1.4	.0	.2	.2	.2	.0	.0	.7
8-9	.0	.0	.3	.2	.1	.0	.7	.0	.0	.0	.0	.0	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	4.6	1.7	.1	.4	11.3	.3	1.9	1.7	.2	.0	.0	4.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.1	.0	.0	.0	.7	.7	1.8	.0	.0	.0	.0	2.5	
1-2	.2	.8	.3	.0	.0	.0	1.3	.2	2.0	1.9	.0	.0	.0	4.0	
3-4	.0	.8	.3	.0	.0	.0	1.1	.0	1.5	3.4	.4	.0	.0	7.4	
5-6	.0	.2	.9	.3	.0	.0	1.4	.0	.6	3.3	1.6	.0	.0	5.6	
7	.0	.1	.1	.0	.0	.0	.3	.0	.2	1.9	1.1	.1	.0	3.2	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.0	1.3	.0	.0	2.3	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.4	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.4	.0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.1	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.3	2.1	.3	.0	.0	5.1	.9	6.1	14.2	5.9	.2	.0	27.3	90.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	12.3	6.1	.4	.0	.0	.0	18.8	
1-2	1.9	12.1	4.8	.0	.0	.0	18.8	
3-4	.0	6.9	13.0	1.7	.0	.0	21.6	
5-6	.0	2.3	8.2	6.7	.2	.0	17.4	
7	.0	.8	4.2	4.2	.4	.0	9.6	
8-9	.0	.0	1.7	3.6	.6	.0	5.9	
10-11	.0	.0	.8	1.3	.6	.0	2.7	
12	.0	.0	1.0	1.0	.2	.0	2.3	
13-16	.0	.0	.0	1.3	.6	.0	2.1	
17-19	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.2	28.2	34.1	20.3	2.9	.4	100.0	922

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	7.0	11.0	6.4	3.6	2.2	.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350
6-7	.0	1.4	3.2	7.0	4.1	4.9	1.9	1.4	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	259
8-9	.1	.3	1.8	3.4	4.2	3.6	1.8	1.3	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	190
10-11	.0	1.1	1.1	1.6	2.1	2.0	1.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111
12-13	.0	.0	1.2	.8	.2	.4	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
13	.0	.0	.0	.4	.2	.4	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
INDET	2.6	.6	.7	.4	.3	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
TOTAL	55	105	192	202	150	138	64	49	41	12	8	0	0	0	0	0	0	0	0	0	1014
PCT	5.4	10.4	18.9	19.9	14.8	13.6	6.3	4.8	4.0	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1961-1974
(OVER-ALL) 1860-1974

MARCH

AREA 0036 POINT ARENA
38.5N 123.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	OTHER WEATHER PHENOMENA					
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	1.8	.5	.8	.0	.0	.0	.0	2.9	1.3	.3	3.7	.2	4.8	.0	.0	87.2
NE	1.1	1.1	1.4	.0	.0	.0	.0	2.6	1.4	.0	7.4	.0	14.9	.0	.0	73.7
E	14.4	.0	10.8	.0	.0	.0	.0	18.5	.0	.0	3.9	.0	13.0	.0	.0	64.6
SE	16.6	.5	8.2	.0	.0	.0	.0	20.8	1.6	.0	5.6	.0	8.0	.5	.0	63.3
S	13.0	1.3	7.6	.0	.0	.0	.0	20.4	3.3	.4	7.6	.0	8.0	.0	.0	60.4
SW	7.8	1.7	6.8	.0	.0	.0	.1	14.8	1.7	.0	5.3	.3	13.6	.0	.0	64.2
W	4.3	.9	2.7	.0	.0	.0	.2	6.8	1.4	.0	2.3	.2	14.7	.0	.0	74.7
NW	1.3	1.7	.7	.0	.0	.0	.0	3.4	1.2	.1	4.2	.2	7.0	.0	.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.3	.0	.0	.0	.0	4.3	.0	.0	8.3	.0	10.3	.0	.0	76.9
TOT PCT	5.2	1.1	3.5	.0	.0	.0	*	8.6	1.5	.1	4.7	.1	9.3	*	*	75.7
TOT OBS:	2751															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	OTHER WEATHER PHENOMENA					
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
00003	4.7	.9	3.0	.0	.0	.0	.0	7.1	1.1	.2	3.7	.2	11.0	.1	.0	76.6
06009	5.0	1.2	2.4	.0	.0	.0	.0	8.4	2.9	.2	5.5	.0	1.2	.0	.0	82.0
12015	5.3	1.3	3.6	.0	.0	.0	.0	9.9	1.5	.0	7.2	.1	8.6	.0	.0	72.6
18021	5.5	1.0	4.4	.0	.0	.0	.1	9.1	1.0	.0	3.1	.1	12.8	.0	.0	74.0
TOT PCT	5.2	1.1	3.5	.0	.0	.0	*	8.6	1.4	.1	4.7	.1	9.4	*	*	75.6
TOT OBS:	2782															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	4.7	4.5	3.8	.7	*		17.1	15.7	17.4	7.1	23.1	16.3	20.7	14.9	22.5	11.9	
NE	1.0	1.5	.6	.1	.0	.0		3.2	7.6	.9	2.1	3.0	3.6	2.2	7.1	2.8	4.7	
E	1.1	1.5	.5	.0	*	.0		3.2	6.5	2.3	4.6	.7	2.7	2.2	4.9	3.1	4.8	
SE	1.5	2.9	2.3	.7	.1	*		7.6	11.3	6.7	6.4	4.7	8.9	7.1	8.3	9.6	9.6	
S	1.8	4.0	3.2	1.1	.1	*		10.2	11.3	8.9	9.4	10.7	10.3	12.1	10.1	9.0	11.6	
SW	1.9	5.7	2.5	.5	*	.0		10.6	8.9	11.7	18.4	7.3	7.1	7.4	13.2	5.3	14.7	
W	2.0	7.8	4.6	.8	.1	.0		15.2	9.8	16.5	27.4	8.1	8.0	9.8	15.9	12.7	19.6	
NW	2.7	8.6	11.9	5.1	.4	.1		28.8	14.1	31.6	24.3	36.7	39.5	31.4	22.8	29.6	21.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2							4.2	.0	4.0	2.2	5.6	3.6	7.0	2.7	5.4	1.9	
TOT OBS	335	1116	976	366	45	5	3043		11.6	344	319	354	112	443	406	441	424	
TOT PCT	17.6	36.7	32.1	12.0	1.5	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	48+					00	06	12	18
N	3.4	6.1	5.6	1.8	.2			17.1	15.7	13.6	21.5	17.9	17.3	
NE	1.8	1.1	.3	.1	.0			3.2	7.6	1.4	3.2	4.6	3.7	
E	2.0	1.0	.1	*	.0			3.2	6.5	3.1	1.2	3.5	4.0	
SE	2.6	3.3	1.4	.3	.1			7.6	11.3	6.6	5.7	7.7	9.6	
S	3.6	4.0	2.1	.5	*			10.2	11.3	9.1	10.6	11.2	10.2	
SW	4.9	4.3	1.2	.2	.0			10.6	8.9	13.4	7.3	10.2	9.9	
W	5.6	7.3	2.2	.2	.0			15.2	9.8	20.6	8.0	12.8	16.1	
NW	6.3	12.5	7.9	2.0	.1			28.7	14.1	28.9	37.4	27.3	23.6	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	4.2							4.2	.0	3.4	5.2	4.9	3.7	
TOT OBS	1045	1201	632	153	12	3043			11.6	863	466	849	865	
TOT PCT	34.3	39.5	20.8	5.0	.4			100.0		100.0	100.0	100.0	100.0	

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1960-1974

AREA 0036 POINT ARENA
38.3N 123.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.4	10.7	37.4	31.4	15.4	1.5	.2	12.4	100.0	863
06009	5.2	4.5	29.2	42.5	15.7	2.8	.2	14.5	100.0	466
12015	4.9	16.1	38.6	30.3	9.0	.9	.1	10.5	100.0	849
18021	3.7	18.3	38.0	28.9	9.7	1.3	.1	10.5	100.0	865
TOT	127	408	1116	976	366	45	5	11.6		3043
PCT	4.2	13.4	36.7	32.1	12.0	1.5	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.8	2.9	5.8	3.5		3.5
NE	1.0	.4	.5	.4		3.5
E	.8	.1	.1	.6		4.0
SE	.6	.3	1.2	3.9		6.7
S	1.0	1.0	2.1	5.5		6.4
SW	1.0	.7	1.9	2.8		5.9
W	2.9	2.2	2.7	3.3		4.7
NW	14.9	5.6	8.4	5.4		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.9	.7	1.6	1.9		4.8
TOT OBS	468	186	327	361	1342	4.4
TOT PCT	34.9	13.9	24.4	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, NM >4/8)											NM <5/8 ANY HGT	TOTAL OBS
							000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ 9999	8000+ 9999		
N	10.8	2.9	5.8	3.5		3.5	.5	.1	.2	1.6	1.9	2.0	.5	.2	.0	.1	.1	15.8	
NE	1.0	.4	.5	.4		3.5	.1	.0	.0	.2	.3	.1	.0	.0	.0	.0	.0	1.7	
E	.8	.1	.1	.6		4.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.0	
SE	.6	.3	1.2	3.9		6.7	.2	.1	.2	.7	1.6	.6	.1	.2	.1	.1	.1	1.6	
S	1.0	1.0	2.1	5.5		6.4	1.0	.1	.4	1.0	2.3	1.3	.4	.1	.0	.0	.0	2.8	
SW	1.0	.7	1.9	2.8		5.9	.5	.1	.4	.5	.8	1.3	.1	.1	.0	.0	.0	2.5	
W	2.9	2.2	2.7	3.3		4.7	.2	.1	.4	.7	1.6	.8	.2	.1	.1	.1	.1	6.9	
NW	14.9	5.6	8.4	5.4		3.6	.6	.1	.7	2.0	3.5	2.3	.4	.2	.1	.2	.2	24.2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9	.7	1.6	1.9		4.8	.4	.0	.0	.1	.8	1.2	.1	.0	.0	.1	.1	3.7	
TOT OBS	468	186	327	361	1342	4.4	50	9	32	94	173	129	24	12	3	9	9	807	1342
TOT PCT	34.9	13.9	24.4	26.9	100.0		3.7	.7	2.4	7.0	12.9	9.6	1.8	.9	.2	.7	.7	60.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
>OR 5000	.7	.9	.9	.9	.9	.9	.9	.9	.7	.9	.9	.9
>OR 3500	1.4	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.4	1.6	1.8	1.8
>OR 2000	3.0	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.4	3.6	3.6
>OR 1000	9.6	13.1	13.3	13.3	13.3	13.3	13.3	13.3	9.6	13.1	13.3	13.3
>OR 500	18.0	24.8	25.9	26.1	26.1	26.1	26.1	26.1	18.0	24.8	25.9	26.1
>OR 300	22.0	30.8	32.6	32.8	33.0	33.0	33.1	33.1	22.0	30.8	32.6	32.8
>OR 150	22.8	32.2	34.5	34.9	35.3	35.4	35.5	35.5	22.8	32.2	34.5	34.9
>OR 75	22.9	32.7	35.2	35.5	35.9	36.1	36.2	36.2	22.9	32.7	35.2	35.5
>OR 0	23.2	33.4	36.7	37.3	38.3	38.9	39.5	39.9	23.2	33.4	36.7	37.3
TOTAL	312	450	494	503	516	524	532	537	312	450	494	503

TOTAL NUMBER OF OBS: 1347

PCT FREQ NM <5/8: 60.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
24.5	8.9	11.6	8.5	6.9	5.2	6.6	6.7	18.1	1471

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974

MARCH

AREA 0036 POINT ARENA
38.5N 123.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.1	.0	.3	.2	.1	.3	.0	.2	1.5	
	TOT %	.2	.1	.2	.2	.3	.2	.1	.4	.0	.2	1.8	
1/2<1	PCP	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.5	
	NO PCP	.1	.1	.0	.1	.3	.3	.1	.2	.0	.0	1.2	
	TOT %	.1	.1	.2	.1	.4	.4	.2	.2	.0	.0	1.7	
1<2	PCP	.1	.0	.1	.2	.2	.2	.1	.1	.0	.0	1.0	
	NO PCP	.1	.1	.0	.1	.3	.4	.2	.2	.0	.0	1.3	
	TOT %	.2	.1	.1	.3	.5	.6	.3	.3	.0	.0	2.4	
2<5	PCP	.1	.0	.1	.3	.6	.4	.3	.1	.0	.1	1.8	
	NO PCP	.3	.4	.3	.6	.7	1.0	1.1	1.5	.0	.3	6.4	
	TOT %	.6	.4	.3	.9	1.3	1.4	1.4	1.6	.0	.4	8.2	
5<10	PCP	.2	.0	.1	.7	1.0	.6	.5	.5	.0	.1	3.7	
	NO PCP	3.1	.5	1.0	1.8	2.0	2.2	5.5	5.9	.0	1.2	23.2	
	TOT %	3.3	.5	1.1	2.5	3.0	2.8	5.9	6.4	.0	1.3	26.9	
10+	PCP	.1	.0	.0	.2	.1	.3	.2	.3	.0	.0	1.3	
	NO PCP	12.1	2.0	1.3	3.2	4.5	5.2	8.1	19.0	.0	2.2	57.6	
	TOT %	12.2	2.0	1.4	3.4	4.6	5.5	8.2	19.3	.0	2.3	58.9	
TOT OBS													2746
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.1	.1	.0	.2	.6	
	4-10	.2	.0	.1	.0	.2	.2	.0	.1	.0	.0	.8	
	11-21	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.2	.2	.3	.2	.1	.4	.0	.2	1.8	
1/2<1	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	4-10	.1	.0	.1	.0	.3	.1	.1	.2	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.2	.1	.4	.4	.1	.3	.0	.0	1.7	
1<2	0-3	.1	.1	.0	.0	.2	.1	.1	.1	.0	.0	.6	
	4-10	.1	.0	.0	.0	.1	.1	.4	.2	.1	.0	1.0	
	11-21	.0	.0	.1	.1	.2	.1	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.1	.4	.5	.6	.3	.3	.0	.0	2.4	
2<5	0-3	.2	.1	.0	.2	.2	.3	.2	.3	.0	.4	2.2	
	4-10	.3	.3	.3	.3	.3	.6	.9	.7	.0	.0	3.9	
	11-21	.3	.0	.0	.1	.4	.4	.2	.3	.0	.0	1.7	
	22+	.0	.0	.0	.2	.3	.1	.0	.2	.0	.0	.9	
	TOT %	.7	.4	.3	.9	1.3	1.4	1.4	1.7	.0	.4	8.6	
5<10	0-3	.3	.2	.6	.5	.7	.4	.8	1.0	.0	1.3	5.8	
	4-10	.9	.1	.4	.9	.9	1.4	2.5	2.0	.0	.0	9.1	
	11-21	1.1	.1	.1	.8	.9	.8	2.2	2.2	.0	.0	8.2	
	22+	.9	.0	.0	.3	.5	.1	.3	1.1	.0	.0	3.3	
	TOT %	3.2	.5	1.1	2.5	3.0	2.7	5.7	6.3	.0	1.3	26.4	
10+	0-3	.7	.6	.4	.7	.7	1.0	.9	1.0	.0	2.3	8.3	
	4-10	3.0	1.0	.8	1.4	2.0	3.0	4.2	5.4	.0	.0	20.9	
	11-21	3.0	.4	.2	1.1	1.6	1.2	2.3	9.1	.0	.0	20.9	
	22+	3.5	.1	.0	.2	.3	.2	.5	4.3	.0	.0	9.1	
	TOT %	12.2	2.1	1.4	3.4	4.7	5.4	8.0	19.7	.0	2.3	59.1	
TOT OBS													2881
TOT PCT													100.0

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974AREA 0036 POINT ARENA
38.5N 123.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	130	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.9	2.99	5.99	9.99	14.99	24.99	34.99	49.99	64.99	79.99	37.7	62.3	387
06009	3.6	.7	2.3	4.9	10.1	7.5	2.0	.7	.3	1.3	33.3	66.7	306
12015	5.2	.6	.6	7.3	14.0	10.8	1.7	1.2	.0	.9	42.2	57.8	344
18021	2.3	.8	2.8	8.2	11.8	7.9	1.8	1.0	.0	.5	37.2	62.8	390
TOT	90	9	32	95	173	131	24	12	3	9	538	889	1427
PCT	3.5	.6	2.2	6.7	12.1	9.2	1.7	.8	.2	.6	37.7	62.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.7	1.8	2.4	10.7	28.7	54.7	835
06009	2.0	1.3	1.1	3.6	21.3	70.4	446
12015	3.2	2.0	3.1	9.0	27.6	55.1	801
18021	.7	1.4	2.7	8.4	25.2	61.6	820
TOT	55	49	77	247	766	1723	2912
PCT	1.9	1.7	2.9	8.5	26.3	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	3.4	7.6	16.3	25.3	58.4	356
06009	3.7	8.1	13.3	21.8	64.9	296
12015	5.4	7.2	15.9	28.1	56.0	334
18021	2.5	6.4	17.7	23.8	58.4	361
TOT	50	98	215	334	798	1347
PCT	3.7	7.3	16.0	24.8	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
75/79	.1	.4	.2	.0	.0	.0	.0	.0	17	.8
70/74	.2	.5	.5	.5	.2	.0	.0	.0	46	2.0
65/69	.2	.5	.6	1.1	.8	.2	.1	.1	82	3.7
60/64	.0	.3	.8	1.1	2.2	2.0	1.1	1.4	197	8.8
55/59	.0	.1	.9	1.3	4.0	6.2	5.8	4.3	507	22.7
50/54	.1	.1	.6	1.3	5.7	9.4	16.6	11.8	1016	45.6
45/49	.0	.2	.3	.6	1.8	3.8	4.4	4.0	337	15.1
40/44	.0	.0	.0	.0	.2	.1	.2	.5	24	1.1
35/39	.0	.0	.0	.0	.0	.0	.0	.1	4	.2
TOTAL	15	49	88	134	333	487	630	493	2229	100.0
PCT	.7	2.2	3.9	6.0	14.9	21.8	28.3	22.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.1	.1	.1	.1	.2	.0	.1	.0	.0
70/74	.1	.1	.2	.2	.2	.3	.3	.3	.0	.1
65/69	.3	.2	.2	.4	.3	.8	.9	.5	.0	.0
60/64	.8	.5	.4	.8	1.1	1.4	1.9	1.4	.0	.5
55/59	2.7	.8	1.2	1.9	3.0	3.2	4.9	4.4	.0	.5
50/54	8.9	1.3	1.0	3.5	4.3	4.7	7.1	14.0	.0	.9
45/49	3.4	.5	.2	.5	.9	1.1	2.2	3.9	.0	.4
40/44	.3	.0	.0	.0	.0	.1	.2	.3	.0	.0
35/39	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	16.6	3.5	3.5	7.4	9.9	11.8	17.6	27.1	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	75	68	55	48	45	38	55.9	871
06009	61	59	57	51	46	42	36	51.4	467
12015	75	69	57	52	46	43	39	51.7	858
18021	79	74	69	54	48	45	43	55.4	870
TOT	80	73	65	53	47	44	36	53.9	3066

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.6	16.6	20.6	23.7	23.0	15.6	74	675
06009	.0	2.0	11.8	23.0	41.9	21.3	81	296
12015	.0	5.2	7.5	18.8	34.2	34.4	83	617
18021	1.6	18.4	17.8	22.2	22.2	17.7	73	667
TOT	15	273	339	492	638	498	77	2235

MARCH

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1860-1974AREA 0036 POINT ARENA
38.5N 123.7W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	H FOG	HQ FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	4	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	5	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.2	.3	.1	.1	13	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.1	.3	.3	.1	.0	.0	15	.0	.8
9/10	.0	.0	.0	.0	.1	.4	.5	.3	.1	.0	.0	.0	28	.0	1.5
7/8	.0	.0	.0	.1	.0	.4	.8	.2	.1	.0	.0	.0	45	.1	2.3
6	.0	.0	.0	.0	.1	.6	1.2	.4	.0	.1	.0	.0	47	.1	2.4
5	.0	.0	.0	.0	.1	.8	1.0	.3	.1	.0	.0	.0	43	.2	2.1
4	.0	.0	.0	.0	.6	1.3	1.6	.1	.0	.0	.0	.0	68	.2	3.4
3	.0	.0	.0	.1	.6	2.2	1.0	.2	.1	.0	.0	.0	77	.4	3.7
2	.0	.0	.0	.0	1.7	4.2	1.4	.2	.0	.0	.0	.0	141	.6	6.8
1	.0	.0	.0	.1	2.6	5.6	.7	.3	.0	.0	.0	.0	174	.7	8.5
0	.0	.2	.0	.3	6.1	7.1	1.3	.2	.0	.0	.0	.0	287	1.2	14.0
-1	.0	.1	.0	.2	5.5	4.9	.4	.1	.0	.0	.0	.0	210	.6	10.5
-2	.0	.0	.0	1.4	6.5	3.5	.2	.1	.0	.0	.0	.0	218	.7	10.9
-3	.0	.1	.0	1.0	6.0	1.6	.1	.0	.0	.0	.0	.0	166	.4	8.4
-4	.0	.0	.0	2.4	3.6	1.2	.1	.0	.0	.0	.0	.0	138	.3	7.0
-5	.0	.0	.1	1.7	2.5	.4	.0	.0	.0	.0	.0	.0	88	.3	4.4
-6	.1	.0	.1	.7	1.1	.2	.0	.0	.0	.0	.0	.0	40	.1	2.1
-7/-8	.0	.1	.2	1.4	1.1	.2	.0	.0	.0	.0	.0	.0	55	.1	2.9
-9/-10	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	12	.1	.6
-11/-13	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	11	.1	.5
TOTAL	1	7	9	183	647	193	63	21	15	5	1888	111	1777		
PCT	.1	.4	.5	9.7	38.7	34.3	10.2	3.3	1.1	.8	.7	.3	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.9	.1	.0	.0	.0	1.1	.1	.3	.0	.0	.0	.0	.3
1-2	.1	2.1	1.8	.0	.0	.0	4.0	.0	.2	.5	.0	.0	.0	1.2
3-4	.0	1.3	1.7	.7	.0	.0	3.7	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	1.6	1.0	.0	.0	2.6	.0	.1	.2	.1	.0	.0	.5
7	.0	.1	2.1	2.0	.4	.0	4.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	1.2	.1	.0	2.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.8	.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.4	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.4	.4	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.5	8.9	6.5	1.3	.0	21.5	.2	1.2	.8	.2	.0	.0	2.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.8	.0	.0	.0	.0	.6	.1	1.4	.6	.0	.0	.0	2.1
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.4	.5	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.3	.0	.0	.0	1.1	.1	2.0	2.5	.9	.1	.0	5.7

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0036 POINT ARENA
30.3N 123.7W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3
1-2	.0	1.5	1.1	.0	.0	.0	2.5	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.6	1.2	.0	.0	.0	1.8	.0	.4	.6	.0	.0	.0	1.0
5-6	.0	.3	1.7	.1	.0	.0	2.3	.0	.3	1.2	.2	.0	.0	1.6
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.1	.0	.0	.2
8-9	.0	.0	.1	.3	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.8	4.2	1.4	.0	.0	8.6	.1	2.2	2.1	.4	.1	.0	5.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	1.3	.2	.0	.0	.0	1.4	
1-2	.0	2.1	.1	.0	.0	.0	2.3	.2	7.5	2.3	.0	.0	.0	8.0	
3-4	.3	.8	1.9	.1	.0	.0	3.0	.3	11.5	3.0	.9	.0	.0	8.7	
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.9	3.4	1.3	.0	.0	7.3	
7	.0	.1	.8	.0	.0	.0	.9	.0	.0	3.8	2.1	.3	.0	6.3	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.6	1.8	.2	.0	3.8	
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	1.0	.8	.2	.0	1.8	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.6	.8	.3	.0	1.7	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.4	3.9	.4	.1	.0	8.0	.5	6.2	20.1	7.9	1.0	.1	37.8	90.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	3.8	.3	.0	.0	.0	.0	14.6
1-2	.9	13.3	6.4	.0	.0	.0	.0	20.6
3-4	.6	5.7	11.9	1.7	.0	.0	.0	19.9
5-6	.0	2.1	11.6	2.7	.0	.0	.0	16.5
7	.0	.3	6.8	5.1	.7	.0	.0	12.9
8-9	.0	.0	2.8	3.7	.4	.0	.0	7.0
10-11	.0	.0	1.3	1.8	.4	.0	.0	3.5
12	.0	.0	.9	1.4	.4	.0	.0	2.7
13-16	.0	.0	.4	.7	.6	.0	.0	1.7
17-19	.0	.0	.0	.4	.1	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.1	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	11.9	25.2	42.4	17.6	2.7	.1	100.0	705

PERIOD: (OVER-ALL) 1949-1974

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.3	6.0	7.1	6.0	3.5	2.5	1.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	5
6-7	.0	1.2	5.0	6.8	6.7	4.0	2.4	.9	1.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	371	7
8-9	.0	.5	2.0	3.2	3.8	3.5	3.6	.7	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	243	8
10-11	.0	1.9	2.0	1.2	2.1	1.6	1.2	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	7
12-13	.0	.0	2.6	.4	.5	.6	.4	.5	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	72	7
>13	.0	.0	.0	.2	.4	.3	.2	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	21	11
INDET	1.5	.6	.5	.4	.5	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
TOTAL	36	131	246	232	225	166	119	46	30	15	4	4	1	0	0	0	0	0	0	1275	6
PCT	2.8	10.3	19.3	18.2	17.6	13.0	9.3	3.6	3.9	1.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.8	.2	.9	.0	.0	.0	.0	1.8	.8	.1	3.8	.2	3.7	.2	89.4
NE	2.5	.0	3.3	.0	.0	.0	.0	5.8	2.9	.4	7.8	.0	9.4	.0	73.9
E	4.0	.0	.8	.0	.0	.0	.0	4.9	1.2	.0	8.5	.0	8.9	.0	76.5
SE	11.8	2.9	5.9	.0	.0	.0	.1	20.5	1.4	.0	6.0	.0	8.0	.0	62.0
S	10.8	1.7	3.8	.0	.0	.0	.8	16.7	5.0	.0	7.1	.3	8.2	.0	62.8
SW	5.1	1.2	2.8	.0	.0	.0	1.0	9.7	1.8	.0	3.0	.3	13.3	.0	72.0
W	2.6	.4	1.0	.0	.0	.0	.3	4.1	1.2	.2	1.9	.2	14.7	.0	77.8
NW	.9	.5	.6	.0	.0	.0	.0	1.9	1.3	.0	3.3	.2	5.2	.2	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	24.4	.8	6.7	.0	66.4
TOT PCT	3.1	.7	1.6	.0	.0	.0	.2	5.5	1.6	.1	4.6	.2	8.1	.1	79.8
TOT OBS:	3372														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	3.2	.0	1.0	.0	.0	.0	.0	4.2	.8	.0	3.9	.0	8.9	.0	82.3
0600Z	2.7	.8	2.0	.0	.0	.0	.0	5.4	3.2	.2	5.0	.0	1.0	.3	84.9
1201Z	4.4	1.3	2.5	.0	.0	.0	.6	8.5	2.1	.0	4.8	.2	8.5	.1	75.7
1802Z	2.6	.7	.9	.0	.0	.0	.3	4.5	1.1	.1	5.1	.5	11.2	.0	77.5
TOT PCT TOT OBS:	3.3 3404	.7	1.6	.0	.0	.0	.2	5.6	1.6	.1	4.7	.2	8.1	.1	79.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.8	7.7	9.1	1.1	.0		18.2	18.4		17.2	9.5	24.4	20.2	24.0	14.7	20.3	13.3
NE	.2	1.2	.4	.2	.0	.0		2.0	10.2		1.4	1.7	3.4	.7	1.8	3.1	2.1	1.7
E	.4	.8	.3	.0	.0	.0		1.8	7.9		.7	1.1	1.2	.7	2.0	3.5	3.0	1.8
SE	1.1	2.4	1.8	.2	.0	.0		5.5	9.8		4.6	3.7	3.4	3.1	6.3	8.8	6.3	6.4
S	1.4	3.8	2.7	.3	.1	.0		8.5	10.1		6.9	7.9	6.6	10.3	9.1	10.2	10.0	8.7
SW	2.1	5.3	3.2	.3	.0	.0		10.9	8.6		10.6	16.1	5.1	5.1	4.1	17.5	10.3	17.7
W	1.9	7.8	5.9	1.2	.1	.0		16.3	10.5		19.7	29.9	9.6	9.9	8.0	19.5	9.1	25.2
NW	1.4	9.7	13.6	7.1	1.2	.1		33.1	16.0		35.3	29.5	41.2	43.7	38.6	22.2	33.2	24.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0		3.4	.8	5.2	6.1	6.4	.5	5.7	1.2
TOT OBS	486	1288	1904	940	92	2	3692		13.0		680	339	499	147	551	416	542	498
TOT PCT	12.6	34.9	35.3	14.6	2.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.7	6.1	7.4	2.6	.1		18.2	18.4	14.5	23.5	20.0	16.9		
NE	.8	.9	.2	.1	.0		2.0	10.2	1.5	2.7	2.2	1.9		
E	.9	.7	.1	.0	.0		1.8	7.9	.9	1.1	2.6	2.4		
SE	2.4	2.2	.8	.1	.0		5.5	9.8	4.3	3.3	7.4	6.3		
S	3.3	3.8	1.3	.1	.1		8.5	10.1	7.3	7.5	9.6	9.4		
SW	4.8	5.0	1.0	.0	.0		10.9	8.6	12.5	5.1	9.9	13.8		
W	5.6	7.9	2.4	.4	.0		16.3	10.5	23.2	9.6	13.0	16.8		
NW	4.8	13.7	11.0	3.4	.2		33.1	16.0	33.4	41.8	31.5	28.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.6						3.6	.0	2.4	5.4	3.8	3.6		
TOT OBS	1029	1492	896	298	17	3692		13.0	1039	646	967	1090		
TOT PCT	27.9	40.4	24.3	7.0	.5		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000Z	2.4	5.2	35.2	39.1	15.1	2.9	.1	13.9	100.0	1039
0600Z	5.4	4.8	27.9	36.5	21.2	4.2	.0	15.1	100.0	646
1201Z	3.8	11.5	37.6	32.3	13.5	1.2	.0	11.9	100.0	967
1802Z	3.6	13.1	36.3	33.7	11.1	2.2	.1	11.9	100.0	1040
TOT	134	332	1288	1304	540	92	2	13.0		3692
PCT	3.6	9.0	34.9	35.3	14.6	2.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	10.1	3.8	5.5	3.6		3.5
NE	.9	.3	.6	.4		3.8
E	.3	.0	.6	.8		4.3
SE	.4	.5	1.2	3.4		6.7
S	.8	.3	2.4	4.3		6.6
SW	.9	.4	1.7	3.6		6.3
W	2.1	1.4	3.2	3.2		5.2
NW	17.5	6.7	8.9	5.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.0	.6	1.0	1.8		4.4
TOT DBS	637	264	472	489	1862	4.3
TOT PCT	34.9	14.0	25.1	26.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	450	1000	2000	3500	5000	6500	8000+	NM <3/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	DBS
.2	.1	.6	1.3	3.0	1.8	.5	.3	.0	.1	15.1	
.2	.1	.0	.1	.4	.1	.0	.0	.0	.0	1.4	
.0	.0	.1	.2	.3	.5	.0	.0	.0	.0	.5	
.4	.0	.2	.5	1.8	.8	.1	.1	.0	.1	1.4	
.3	.1	.2	.9	2.3	1.0	.3	.2	.0	.2	2.3	
.2	.1	.3	.7	1.6	1.0	.3	.1	.0	.1	2.3	
.3	.1	.2	.3	1.4	1.7	.3	.2	.0	.0	5.4	
.4	.2	.7	1.3	2.9	3.9	.7	.0	.2	.3	27.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.2	.1	.1	.6	.2	.0	.0	.0	3.3	
54	13	46	101	260	215	44	17	5	14	1113	1982
2.9	.7	2.4	5.4	13.8	11.4	2.3	.9	.3	.7	59.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>DR >5000	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>DR >3500	3.5	4.1	4.3	4.3	4.3	4.3	4.3	4.3
>DR >2000	12.5	15.2	15.8	15.8	15.8	15.9	15.9	15.9
>DR >1000	20.9	27.9	29.4	29.5	29.5	29.6	29.6	29.6
>DR >600	24.1	32.3	34.4	34.7	34.8	34.9	34.9	34.9
>DR >300	24.9	34.2	36.5	36.9	37.2	37.3	37.3	37.3
>DR >150	25.2	34.6	37.1	37.5	37.9	38.0	38.0	38.0
>DR >0	25.3	35.0	37.6	38.3	38.9	39.8	40.7	40.9
TOTAL	480	662	712	725	737	753	770	774

TOTAL NUMBER OF DBS: 1894

PCT FREQ NM <5/8: 59.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
	26.7	6.9	11.4	7.9	4.3	7.0	7.4	5.4	18.3	1973

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1856-1974

APRIL

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.0	.0	.3	.3	.1	.1	.3	.0	.5	1.7	
	TOT %	.2	.0	.0	.3	.3	.1	.1	.3	.0	.5	1.8	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.1	.1	.2	.1	.1	.0	.1	.8	
	TOT %	.0	.1	.0	.1	.1	.2	.2	.1	.0	.1	.9	
1<2	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.1	.1	.1	.2	.2	.2	.1	.0	.1	1.1	
	TOT %	.0	.1	.1	.2	.3	.3	.3	.1	.0	.1	1.5	
2<5	PCP	.0	.0	.0	.3	.2	.1	.1	.2	.0	.0	1.0	
	NO PCP	.7	.2	.2	.3	.5	1.1	1.2	1.1	.0	.2	5.7	
	TOT %	.7	.2	.2	.6	.7	1.3	1.4	1.3	.0	.2	6.7	
5<10	PCP	.2	.0	.0	.3	.7	.6	.2	.3	.0	.0	2.4	
	NO PCP	2.9	.2	.2	1.1	2.0	3.7	6.2	5.8	.0	1.0	23.1	
	TOT %	3.1	.2	.2	1.4	2.7	4.4	6.4	6.1	.0	1.0	25.5	
10+	PCP	.0	.1	.0	.3	.4	.2	.3	.1	.0	.0	1.4	
	NO PCP	13.5	1.4	1.3	2.5	3.9	5.0	8.7	24.4	.0	1.7	62.2	
	TOT %	13.5	1.4	1.3	2.8	4.3	5.2	9.0	24.5	.0	1.7	63.6	
TOT OBS													3269
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.1	.1	.0	.3	1.0	
	4-10	.2	.0	.0	.2	.2	.1	.1	.3	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.3	.3	.1	.1	.3	.0	.3	2.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.2	.2	.1	.0	.1	.8	
1<2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.4	
	4-10	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.7	
	11-21	.0	.1	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.3	.3	.3	.3	.2	.0	.1	1.7	
2<5	0-3	.1	.1	.1	.2	.2	.2	.2	.1	.0	.3	1.4	
	4-10	.3	.2	.1	.1	.2	.6	.7	.6	.0	.0	2.9	
	11-21	.3	.0	.0	.3	.3	.4	.4	.3	.0	.0	2.1	
	22+	.2	.0	.0	.1	.1	.0	.0	.2	.0	.0	.8	
	TOT %	.9	.3	.2	.6	.8	1.2	1.4	1.4	.0	.3	7.1	
5<10	0-3	.1	.0	.1	.3	.6	.8	.7	.3	.0	1.0	3.9	
	4-10	.7	.1	.1	.3	1.0	2.0	3.0	2.1	.0	.0	9.3	
	11-21	1.3	.0	.0	.8	.8	1.2	2.1	2.3	.0	.0	8.3	
	22+	1.0	.0	.0	.2	.1	.3	1.4	.0	.0	.0	3.2	
	TOT %	3.1	.2	.2	1.4	2.7	4.2	6.1	6.0	.0	1.0	24.9	
10+	0-3	.3	.1	.2	.4	.5	1.0	.9	.9	.0	1.7	6.0	
	4-10	2.5	.9	.5	1.4	2.3	2.5	4.0	6.5	.0	.0	20.6	
	11-21	5.9	.3	.4	.9	1.4	1.5	2.9	10.5	.0	.0	23.8	
	22+	4.9	.1	.0	.1	.2	.1	.9	8.6	.0	.0	12.9	
	TOT %	13.5	1.3	1.2	2.8	4.4	5.1	8.7	24.5	.0	1.7	63.3	
TOT OBS													3532
TOT PCT													100.0

APRIL

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.3	.4	2.3	5.0	11.0	12.8	2.7	.8	.4	.6	38.1	61.9	525
06009	2.5	.2	1.3	5.1	11.6	8.5	1.7	.6	.0	1.3	32.8	67.2	473
12015	3.9	1.6	2.7	5.7	14.8	9.8	2.5	.9	.0	.2	42.0	58.0	440
18021	2.6	.6	3.2	5.1	16.4	13.8	2.4	1.2	.6	.8	46.5	53.5	507
TOT	94	13	46	101	281	220	45	17	5	14	776	1169	1943
PCT	2.8	.7	2.4	5.2	13.4	11.3	2.3	.9	.3	.7	39.9	60.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	1.2	1.6	7.5	29.1	59.3	999
06009	2.2	.6	1.0	4.6	18.7	72.9	627
12015	3.4	.9	2.5	8.3	26.3	58.6	928
18021	1.9	.7	1.5	7.3	23.3	65.3	1012
TOT	78	31	60	255	888	2254	3566
PCT	2.2	.9	1.7	7.2	24.9	63.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	2.4	5.6	13.7	27.4	58.8	503
06009	2.8	4.2	12.1	22.3	65.6	471
12015	3.9	8.6	16.5	26.9	56.6	431
18021	3.1	7.2	15.5	34.8	49.7	489
TOT	37	120	273	529	1092	1894
PCT	3.0	6.3	14.4	27.9	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	5	.2
70/74	.0	.0	.1	.1	.2	.0	.0	.0	10	.4
65/69	.0	.0	.3	.5	.6	.2	.1	.0	43	1.7
60/64	.0	.0	.4	1.0	2.7	1.7	1.0	.4	186	7.3
55/59	.0	.1	.4	2.0	5.3	11.7	8.2	4.4	816	32.2
50/54	.0	.1	.1	.7	6.1	10.3	19.6	10.1	1190	46.9
45/49	.0	.0	.0	.1	1.0	2.7	3.7	3.1	270	10.6
40/44	.0	.0	.0	.0	.1	.1	.4	.1	16	.6
35/39	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	1	8	35	115	405	679	837	457	2537	100.0
PCT	.0	.3	1.4	4.3	16.0	26.8	33.0	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.0	.0	.0	.1	.1	.1	.1	.0	.0	.0
.2	.0	.1	.2	.1	.2	.5	.4	.0	.0
.6	.0	.1	.4	.9	1.3	2.5	1.4	.0	.1
3.1	.7	.6	2.0	3.1	6.6	8.8	6.6	.0	.5
10.8	1.0	.8	2.0	3.7	4.5	7.0	13.9	.0	1.1
2.7	.4	.2	.4	.6	.4	1.3	4.4	.0	.4
.1	.0	.0	.0	.1	.1	.2	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.5	2.1	1.9	5.2	8.5	13.2	20.3	29.1	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	67	62	55	49	47	40	54.9	1038
06009	68	61	56	51	47	45	43	51.5	652
12015	69	61	57	51	47	44	40	51.7	972
18021	77	70	62	55	49	46	38	55.1	1040
TOT	77	66	61	53	48	45	38	53.5	3702

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	8.2	19.1	31.4	27.6	13.6	76	760		
06009	.0	.5	9.2	26.6	41.2	22.5	82	391		
12015	.0	3.2	8.8	20.0	41.5	26.5	83	630		
18021	.0	9.7	22.6	27.6	26.9	13.2	76	731		
TOT	1	158	408	980	843	462	79	2532		

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1859-1974

APRIL

AREA 0036 POINT ARENA
38.3N 123.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	7	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	11	.0	.4
9/10	.0	.0	.0	.0	.0	.3	.3	.2	.0	.0	.0	23	.0	.9
7/8	.0	.0	.0	.1	.3	1.3	.4	.0	.0	.0	.0	55	.0	2.2
6	.0	.0	.0	.1	.6	.9	.1	.0	.0	.0	.0	40	.2	1.4
5	.0	.0	.1	.1	1.1	1.3	.2	.0	.0	.0	.0	69	.2	2.6
4	.0	.0	.0	.8	3.0	1.9	.3	.0	.0	.0	.0	150	.3	5.8
3	.0	.0	.1	1.3	3.0	1.2	.1	.0	.0	.0	.0	141	.2	5.5
2	.1	.0	.2	3.1	4.5	1.3	.1	.0	.0	.0	.0	230	.6	8.8
1	.0	.0	.2	2.6	4.4	.6	.0	.0	.0	.0	.0	192	.6	7.3
0	.1	.1	.5	7.1	5.5	.7	.1	.0	.0	.0	.0	343	.8	13.2
-1	.0	.0	.5	6.4	3.9	.3	.0	.0	.0	.0	.0	274	.6	10.6
-2	.0	.0	1.3	7.3	2.9	.2	.0	.0	.0	.0	.0	286	.6	11.1
-3	.0	.0	.9	5.6	1.7	.0	.0	.0	.0	.0	.0	202	.2	8.0
-4	.0	.0	1.3	4.4	.7	.0	.0	.0	.0	.0	.0	160	.4	6.2
-5	.0	.0	1.3	2.4	.4	.0	.0	.0	.0	.0	.0	104	.1	4.1
-6	.0	.0	1.3	1.1	.0	.0	.0	.0	.0	.0	.0	58	.0	2.3
-7/-8	.0	.1	1.5	.7	.2	.1	.0	.0	.0	.0	.0	63	.4	2.2
-9/-10	.0	.1	.3	.4	.2	.0	.0	.0	.0	.0	.0	25	.0	1.0
-11/-13	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	12	.0	.5
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	.1	.6
TOTAL	7	11	234	1076	801	253	51	15	2	1	1	2432	132	2320
PCT	.3	.4	9.5	43.9	32.7	10.3	2.1	.6	.1	.0	.0	100.0	5.4	94.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	.4
1-2	.1	1.0	1.2	.0	.0	.0	2.3	.0	.2	.0	.0	.0	.0	.3
3-4	.0	.8	2.5	.7	.0	.0	4.1	.0	.3	.1	.1	.0	.0	.5
5-6	.0	.6	3.3	1.7	.2	.0	5.9	.0	.0	.1	.0	.0	.0	.2
7	.0	.1	1.0	1.5	.3	.0	2.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.9	1.7	.4	.0	3.1	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.4	1.1	.3	.0	1.8	.0	.0	.1	.0	.0	.0	.2
12	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.7	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.3	9.4	7.7	2.5	.0	23.1	.0	1.0	.3	.2	.1	.0	1.6

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	1.3	.1	.0	.0	.0	1.5
1-2	.1	.0	.4	.0	.0	.0	.5	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.3	.2	.1	.0	.0	.6	.0	.4	1.1	.1	.0	.0	1.5
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	1.2	.2	.0	.0	2.0	.1	2.0	2.9	.3	.0	.0	5.3

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0036 POINT ARENA
38.5N 123.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.8	.2	.0	.0	.0	1.0	.2	1.0	.0	.0	.0	.0	1.3
1-2	.0	1.2	.6	.0	.0	.0	1.8	.0	.9	.2	.0	.0	.0	1.1
3-4	.1	.7	1.1	.2	.0	.0	2.1	.0	.4	.5	.1	.0	.0	1.0
5-6	.0	.2	.7	.2	.0	.0	1.0	.0	.0	.4	.1	.0	.0	.5
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.1	.1	.0	.3	.0	.0	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	2.9	.8	.1	.0	7.0	.2	2.3	1.5	.2	.0	.0	4.3

MGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.0	.2	.0	.0	.0	1.5	.4	1.7	.2	.0	.0	.0	2.4
1-2	.1	.8	.6	.0	.0	.0	1.4	.0	3.6	2.5	.0	.0	.0	6.1
3-4	.2	1.3	1.0	.2	.0	.0	2.7	.0	3.4	7.3	1.9	.0	.0	12.1
5-6	.0	.0	.4	.1	.0	.0	.5	.0	.6	5.0	2.1	.4	.0	8.0
7	.0	.1	.3	.0	.1	.0	.5	.0	.1	1.4	2.1	.2	.0	3.7
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.9	1.9	.1	.0	2.9
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.7	3.1	.2	.0	4.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	.0	2.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.1	2.4	.4	.2	.0	6.8	.4	9.3	18.8	12.0	2.0	.0	42.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	7.3	.7	.0	.0	.0	16.5	
1-2	.3	8.3	5.7	.0	.0	.0	14.3	
3-4	.4	7.6	13.8	2.7	.0	.0	24.5	
5-6	.0	1.4	10.8	4.1	.5	.0	16.9	
7	.0	.2	3.7	3.7	.6	.0	8.3	
8-9	.0	.1	2.2	3.8	.6	.0	6.8	
10-11	.0	.0	1.5	4.4	.6	.0	6.6	
12	.0	.0	.7	1.4	1.0	.0	3.1	
13-16	.0	.0	.1	1.2	.5	.0	1.8	
17-19	.0	.0	.1	.2	.3	.0	.6	
20-22	.0	.0	.0	.0	.5	.0	.5	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.2	24.9	39.3	21.7	4.9	.0	100.0	989

PERIOD: (OVER-ALL) 1969-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT
<6	1.4	6.6	11.0	6.6	2.8	1.1	1.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	519	4
6-7	.0	.6	4.8	6.9	5.3	4.3	2.8	1.5	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	457	7
8-9	.0	.1	1.7	2.4	3.6	2.8	2.1	1.4	.8	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	255	8
10-11	.0	1.1	1.7	1.1	1.6	1.3	1.0	.9	.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	163	7
12-13	.0	.0	1.3	.5	.5	.3	.3	.1	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	60	8
>13	.0	.0	.0	.2	.1	.1	.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	14	14
INDET	4.4	1.0	3.4	.8	.7	.5	.1	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	187	3
TOTAL	97	157	396	306	241	173	124	69	56	16	11	6	5	0	0	0	0	0	0	1857	6
PCT	5.9	9.5	23.9	18.5	14.5	10.4	7.5	4.2	3.4	1.0	.7	.4	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1879-1973

MAY

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA					
N	.6	.3	1.2	.0	.0	.0	.0	2.0	.9	.4	3.9	.3	2.8	.0	89.7					
NE	1.7	.0	.0	.0	.0	.0	1.7	3.4	.4	.0	4.7	1.7	6.0	.0	83.8					
E	3.4	.0	.0	.0	.0	.0	.0	3.4	3.4	.0	3.4	3.4	3.4	.0	83.1					
SE	3.1	1.7	3.4	.0	.0	.0	.0	8.2	.0	.0	1.4	1.4	14.4	.0	74.3					
S	4.6	2.2	4.1	.0	.0	.0	.0	10.8	1.1	.0	6.4	.3	9.9	.0	71.2					
SW	2.4	.9	2.3	.0	.0	.0	.0	5.2	.6	.1	4.0	.0	13.8	.0	74.3					
W	1.2	.1	3.3	.0	.0	.0	.0	4.1	1.0	.2	3.4	.0	8.9	.0	82.5					
NW	.4	.4	1.3	.0	.0	.0	.0	2.1	.1	.0	7.0	.4	3.2	.0	85.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.2	.0	.0	.0	.0	.0	1.2	2.4	1.2	1.2	13.1	.0	17.9	.0	64.3					
TOT PCT	1.1	.5	1.8	.0	.0	.0	.1	3.4	.6	.2	5.4	.3	7.2	.0	82.9					
TOT OBS:	2919																			

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	1.1	.6	2.5	.0	.0	.0	.1	4.2	.5	.1	4.6	.1	7.4	.0	83.0
0600Z	1.6	.0	2.2	.0	.0	.0	.0	3.6	1.2	.6	4.7	.8	2.8	.0	86.2
1200Z	1.5	.4	1.9	.0	.0	.0	.0	3.7	.5	.1	5.3	.3	8.6	.0	81.5
1800Z	.5	.9	1.0	.0	.0	.0	.1	2.2	.4	.0	6.9	.4	8.1	.0	82.1
TOT PCT TOT OBS:	1.1 2947	.5	1.9	.0	.0	.0	.1	3.5	.6	.2	5.4	.3	7.1	.0	82.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.6	8.2	6.3	1.4	.0		20.4	19.1		18.9	11.6	28.9	20.2	27.5	13.6	28.5	11.9
NE	.6	.9	.4	.1	.1	.0		2.0	8.8		.8	3.6	1.4	1.6	1.8	2.7	1.0	3.6
E	.3	.4	.2	.0	.0	.0		1.0	7.4		.6	1.3	1.4	1.1	1.6	1.2	1.1	.7
SE	.8	1.5	.9	.1	.0	.0		3.4	8.4		2.4	2.5	3.3	3.5	3.5	6.2	3.0	3.1
S	.5	3.1	1.5	.2	.0	.0		5.4	9.5		3.5	3.7	5.1	5.3	3.1	11.0	3.4	5.7
SW	1.9	4.2	2.5	.2	.0	.0		8.8	8.4		9.4	12.9	2.4	7.1	2.7	15.3	3.4	16.6
W	2.5	6.9	5.0	.9	.0	.0		15.4	9.7		18.0	29.5	6.5	8.2	7.1	20.1	3.9	27.3
NW	1.6	8.4	17.7	10.5	2.4	.1		40.7	17.8		42.2	33.6	47.1	50.7	48.1	26.5	52.7	29.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		2.0	1.3	4.0	2.1	3.5	3.4	3.0	2.0
TOT OBS	388	945	1184	599	126	4	3246		14.4		811	314	425	141	477	412	406	460
TOT PCT	12.0	29.1	36.5	18.5	3.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	12	18
N	1.9	6.3	8.1	3.7	.3		20.4	19.1	16.5	26.7	21.1	19.7	
NE	1.1	.6	.2	.1	.0		2.0	8.8	1.7	1.5	2.2	2.4	
E	.6	.3	.1	.0	.0		1.0	7.4	.9	1.3	.9	.9	
SE	1.3	1.5	.3	.0	.0		3.4	8.4	2.4	3.4	4.8	3.0	
S	1.9	2.9	.6	.0	.0		5.4	9.5	4.9	5.2	6.8	4.6	
SW	3.8	4.3	.6	.0	.0		8.8	8.4	10.6	3.6	8.5	10.5	
W	6.0	7.1	1.9	.3	.0		15.4	9.7	21.9	6.9	13.1	16.3	
NW	4.5	14.8	15.5	5.5	.5		40.7	17.8	39.3	48.0	38.1	40.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.0						3.0	.0	1.7	3.5	4.5	2.4	
TOT OBS	789	1228	890	313	26	3246		14.4	925	566	869	866	
TOT PCT	24.3	37.8	27.4	9.6	.8		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1879-1973

MAY

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00Z03	1.7	9.1	27.2	38.8	17.9	4.8	.4	14.9	100.0	925
06Z09	3.5	3.5	24.9	37.8	23.9	6.4	.0	16.7	100.0	566
12Z15	4.5	12.0	33.2	31.2	16.8	2.4	.0	12.8	100.0	889
18Z21	2.4	9.2	29.7	38.6	17.2	2.9	.0	14.1	100.0	866
TOT	97	291	945	1184	599	126	.4	14.4		3246
PCT	3.0	9.0	29.1	36.5	18.5	3.9	-1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL DBSCD	MEAN CLOUD COVER
N	10.2	3.0	6.5	7.4		4.3
NE	.3	.2	.3	.4		4.6
E	.3	.1	.4	.3		5.3
SE	.3	.3	.9	1.0		6.0
S	.9	.3	1.0	2.4		5.9
SW	.9	.3	.6	1.2		5.2
W	1.7	.8	1.7	2.0		5.0
NW	23.5	7.0	9.3	11.2		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	1.0	1.1		4.4
TOT OBS	588	181	325	405	1499	4.1
TOT PCT	39.2	12.1	21.7	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	DBS
N	.5	.1	.8	2.1	4.8	3.5	.4	.1	.1	.1	14.7	
NE	.0	.0	.0	.1	.4	.0	.0	.0	.1	.0	.6	
E	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.4	
SE	.1	.1	.1	.3	.4	.4	.1	.0	.0	.1	.9	
S	.5	.1	.0	.9	.8	.5	.2	.0	.1	.0	1.6	
SW	.1	.1	.2	.3	.7	.2	.2	.1	.0	.0	1.2	
W	.4	.0	.3	.4	1.1	.7	.2	.0	.0	.0	2.9	
NW	1.5	.3	1.2	2.8	5.7	4.4	1.3	.1	.3	.1	33.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.0	.2	.4	.1	.1	.0	.0	.1	2.1	
TOT OBS	57	11	39	107	215	150	39	5	7	5	864	1499
TOT PCT	3.8	.7	2.6	7.1	14.3	10.0	2.6	.3	.5	.3	57.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.6	.7	.9	.9	.9	.9	.9	.9
>5000	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>3500	2.9	3.6	3.8	3.8	3.8	3.8	3.8	3.8
>2000	10.5	13.2	13.9	13.9	13.9	13.9	13.9	13.9
>1000	20.7	26.7	28.1	28.1	28.1	28.1	28.1	28.1
>600	25.1	33.0	35.0	35.2	35.2	35.2	35.2	35.2
>300	26.0	35.3	37.6	37.8	37.8	37.8	37.8	37.8
>150	26.3	35.9	38.3	38.5	38.5	38.5	38.5	38.5
>0	26.6	36.7	39.5	39.9	40.2	41.2	41.9	42.3
TOTAL	403	556	598	604	609	624	635	641

TOTAL NUMBER OF OBS: 1515

PCT FREQ NM <5/8: 57.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
26.9	9.7	8.8	7.4	4.6	5.4	7.4	6.5	20.1	1600

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1879-1973

MAY

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.	.	.	.	.	.	.	.	.	.	.	.2
	NO PCP	.2	.	.	.	.	.1	.1	.	.	.	.3	1.9
	TOT %	.3	.	.	.	.2	.1	.2	.	.	.3	.3	2.1
1/2<1	PCP	.0	.0	.	.	.	.	.	.	.	.	.	.1
	NO PCP	.1	.1	.	.	.1	.1	.1	.4	.	.	.	.9
	TOT %	.1	.1	.	.1	.1	.1	.1	.4	.	.	.	1.0
1<2	PCP	.	.	.	.	.	.1	.1	.	.	.	.	.3
	NO PCP	.1	.1	.	.1	.2	.4	.4	.6	.	.1	.2	2.0
	TOT %	.1	.1	.	.2	.2	.5	.4	.6	.	.1	.2	2.3
2<5	PCP	.	.	.	.	.	.	.	.	.	.	.	.5
	NO PCP	.3	.1	.	.4	.5	1.3	1.9	1.7	.	.3	.6	6.6
	TOT %	.3	.1	.	.4	.6	1.3	2.1	1.8	.	.3	.7	7.1
5<10	PCP	.2	.1	.	.1	.3	.1	.3	.	.	.	.	1.7
	NO PCP	4.0	.4	.3	.5	1.4	2.8	5.7	9.6	.	.5	25.1	
	TOT %	4.2	.5	.3	.6	1.7	2.9	6.1	10.1	.	.5	26.8	
10+	PCP	.1	.	.	.	.1	.2	.1	.2	.	.	.	.7
	NO PCP	14.9	1.3	.6	1.7	2.5	4.3	7.3	25.9	.	1.6	60.1	
	TOT %	15.0	1.3	.6	1.7	2.6	4.4	7.3	26.1	.	1.7	60.8	
TOT OBS													2916
TOT PCT													20.2 2.0 1.0 3.0 5.4 9.3 16.2 40.0 .0 2.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.	.	.	.	.	.1	.1	.	.3	.	.6
	4-10	.	.	.	.	.	.1	.1	.	.	.	.	.8
	11-21	.1	.	.	.	.	.1	.1	.	.	.	.	.6
	22+	.	.	.	.	.	.	.	.	.	.	.	.1
	TOT %	.2	.	.	.	.2	.1	.2	.9	.	.3	.3	2.1
1/2<1	0-3	.0	.1	.	.	.	.	.	.	.	.	.	.1
	4-10	.0	.	.	.	.	.	.1	.	.	.	.	.3
	11-21	.1	.	.	.	.	.	.	.2	.	.	.	.4
	22+	.	.	.	.	.	.	.	.1	.	.	.	.2
	TOT %	.1	.1	.	.1	.1	.1	.1	.4	.	.	.	1.0
1<2	0-3	.0	.	.	.1	.1	.	.1	.	.	.1	.	.4
	4-10	.1	.1	.	.1	.1	.3	.2	.1	.	.	.	1.0
	11-21	.1	.	.	.	.	.1	.2	.3	.	.	.	.8
	22+	.0	.	.	.	.	.	.	.2	.	.	.	.2
	TOT %	.1	.1	.1	.1	.2	.5	.5	.7	.	.1	.2	2.4
2<5	0-3	.1	.	.	.1	.1	.1	.2	.1	.	.3	.	1.0
	4-10	.2	.	.	.1	.2	.5	1.1	.4	.	.	.	2.7
	11-21	.3	.	.	.	.	.6	.7	.9	.	.	.	2.7
	22+	.1	.	.	.	.	.1	.1	.4	.	.	.	.7
	TOT %	.6	.1	.1	.4	.6	1.2	2.0	1.8	.	.3	.7	7.2
5<10	0-3	.2	.	.	.	.	.	.8	.4	.	.5	.	2.4
	4-10	.8	.3	.	.4	.9	1.5	2.7	1.9	.	.	.	8.6
	11-21	1.5	.	.	.2	.6	.9	1.9	4.0	.	.	.	9.3
	22+	1.7	.	.	.	.1	.1	.4	3.8	.	.	.	6.1
	TOT %	4.3	.4	.3	.6	1.6	2.8	5.8	10.1	.	.5	.5	26.4
10+	0-3	.5	.3	.2	.5	.3	1.5	1.4	1.0	.	1.7	.7	7.3
	4-10	2.4	.5	.3	.7	1.5	1.8	2.9	5.1	.	.	.	15.3
	11-21	6.3	.3	.1	.6	.8	.8	2.3	11.8	.	.	.	22.9
	22+	8.1	.1	.	.	.	.	.5	8.6	.	.	.	15.5
	TOT %	15.2	1.2	.6	1.8	2.7	4.2	7.1	26.4	.	1.7	.7	61.0
TOT OBS													3069
TOT PCT													20.6 2.0 1.0 3.1 5.4 8.9 15.7 40.3 .0 2.8 100.0

MAY

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1879-1973

TABLE 10

AREA 0036 POINT ARENA
38.5N 124.0W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	5.0	.7	2.4	7.2	11.5	9.1	3.1	.2	.0	.2	39.6	60.4	417
06009	2.1	1.1	2.1	5.8	12.4	7.6	2.1	.3	.3	.3	34.2	65.8	380
12015	3.8	.5	2.4	6.8	16.8	12.2	1.9	.3	.5	.3	45.5	54.5	369
18021	3.8	.5	3.0	7.6	15.0	10.4	2.8	.5	1.0	.5	45.2	54.8	394
TOT	58	11	39	107	216	153	39	5	8	5	641	919	1560
PCT	3.7	.7	2.5	6.9	13.8	9.8	2.5	.3	.5	.3	41.1	58.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL DBS
00003	1.9	.7	2.3	7.3	30.5	57.3	881
06009	2.0	1.5	.6	3.7	24.7	67.5	338
12015	2.6	1.3	3.7	7.1	25.7	39.6	842
18021	1.8	.7	2.4	9.6	23.9	61.6	837
TOT	65	31	74	224	818	1886	3098
PCT	2.1	1.0	2.4	7.2	26.4	60.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	5.2	8.5	18.4	24.4	57.2	402
06009	2.1	5.4	14.7	21.2	64.1	373
12015	3.9	7.2	15.8	31.7	52.5	360
18021	3.9	7.9	18.4	30.0	51.6	380
TOT	38	110	256	405	854	1515
PCT	3.8	7.3	16.9	26.7	56.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
80/84	.0	.1	.1	.1	.0	.0	.0	.0	7	.3
75/79	.0	.2	.4	.4	.1	.0	.0	.0	21	1.0
70/74	.0	.4	.5	.6	.6	.2	.3	.1	60	2.8
65/69	.0	.2	.2	1.2	1.2	1.8	.5	.2	113	5.2
60/64	.0	.0	.3	1.1	3.2	3.1	2.9	1.2	295	11.8
55/59	.0	.0	.0	.5	2.9	10.9	15.2	5.9	765	35.4
50/54	.0	.0	.1	.2	2.3	6.1	18.9	12.9	878	40.6
45/49	.0	.0	.0	.0	.1	2	1.2	1.2	61	2.8
40/44	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
TOTAL	2	22	30	88	224	486	846	466	2164	100.0
PCT	.1	1.0	1.4	4.1	10.4	22.5	39.1	21.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0
75/79	.0	.0	.0	.1	.1	.3	.3	.1	.0	.0
70/74	.0	.2	.0	.1	.1	.6	1.4	.3	.0	.1
65/69	.5	.1	.0	.2	.3	1.4	1.7	.9	.0	.1
60/64	1.0	.3	.1	.6	.8	2.4	4.0	2.0	.0	.5
55/59	6.7	.7	.6	1.1	3.0	4.0	7.5	11.2	.0	.8
50/54	12.0	.9	.4	1.0	1.3	1.4	3.0	19.7	.0	1.0
45/49	.6	.0	.0	.0	.0	.1	.3	1.8	.0	.1
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	20.7	2.2	1.0	3.1	5.6	10.4	18.3	36.0	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	82	75	67	56	51	48	46	57.1	925
06009	72	63	59	53	49	47	42	53.3	568
12015	77	70	62	54	49	46	43	54.3	894
18021	85	80	71	56	50	48	45	57.7	869
TOT	85	75	67	55	49	47	42	55.8	3256

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00009	.0	8.1	13.4	28.7	34.3	15.5	78	651
06009	.0	1.2	3.9	15.3	48.5	31.2	86	333
12015	.0	3.4	7.5	15.6	45.9	27.6	84	588
18021	.3	10.5	13.5	26.0	32.7	16.9	78	608
TOT	2	141	226	488	853	470	61	2180

AREA 0036 POINT ARENA
38.5N 124.0W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)[illegible]

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

M								NE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.5	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0	.3	
1-2	.1	1.5	.0	.0	.0	.0	2.1	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.8	3.8	1.0	.0	.0	5.6	.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.3	2.4	1.7	.2	.0	4.6	.0	.3	.0	.0	.0	.0	.3	
7	.0	.1	2.0	1.8	.1	.0	4.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.1	1.2	2.4	.4	.0	4.1	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	1.2	.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.7	.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.9	.0	1.7	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.4	10.5	9.5	2.7	.0	26.4	.3	.5	.3	.3	.0	.0	1.4	

E								SE							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	.5	
1-2	.0	.1	.1	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.6	.4	.0	.0	.0	1.0	.2	.9	.6	.8	.0	.0	1.0	

PERIOD: (OVER-ALL) 1963-1973

MAY
TABLE 18 (CONT)AREA 0036 POINT ARENA
38.5N 124.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	.4	.2	.0	.0	.0	.0	.6	
1-2	.0	.5	.0	.0	.0	.0	1.1	.0	.5	.1	.0	.0	.0	.7	
3-4	.0	.3	.1	.0	.0	.0	.5	.0	.1	.2	.0	.0	.0	.3	
5-6	.0	.0	.1	.2	.0	.0	.3	.0	.1	.2	.1	.0	.0	.3	
7	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	.9	.3	.0	.0	2.7	.4	1.1	.3	.1	.0	.0	1.8	

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.1	.1	.0	.0	.0	1.3	.0	.5	.1	.0	.0	.0	.7	
1-2	.1	.8	.2	.0	.0	.0	1.1	.0	4.1	2.6	.0	.0	.0	6.7	
3-4	.0	.3	.8	.1	.0	.0	1.2	.0	2.7	7.0	1.5	.0	.0	11.2	
5-6	.0	.0	.3	.0	.0	.0	.5	.0	.6	5.3	2.8	.2	.0	8.9	
7	.0	.0	.5	.1	.0	.0	.5	.0	.2	4.8	3.4	.8	.1	9.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.9	.4	.0	7.8	
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.1	1.0	3.3	.7	.0	5.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.8	.7	.0	3.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.9	.0	2.4	
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.3	2.2	.2	.0	.0	4.8	.0	8.4	25.0	18.1	4.7	.1	56.3	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	3.6	.2	.0	.0	.0	9.2	
1-2	.2	8.3	4.1	.0	.0	.0	12.7	
3-4	.0	4.7	12.2	2.7	.0	.0	19.5	
5-6	.0	1.1	8.7	4.8	.4	.0	15.0	
7	.0	.4	7.5	5.3	.8	.1	14.1	
8-9	.0	.1	4.8	6.4	.8	.0	12.2	
10-11	.0	.2	1.4	4.3	1.2	.0	7.4	
12	.0	.0	.7	2.5	1.0	.0	4.2	
13-16	.0	.0	.1	2.2	1.8	.0	4.1	
17-19	.0	.0	.1	.7	.7	.0	1.0	
20-22	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	18.5	39.9	28.5	7.5	.1	100.0	829

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	8.3	11.1	6.0	3.6	2.1	.8	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	497	4
6-7	.0	1.9	5.4	6.9	4.1	4.5	2.8	1.8	1.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	420	7
8-9	.1	.6	2.1	1.9	3.8	2.0	2.2	1.7	2.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	257	8
10-11	.0	.1	.8	.7	1.1	.8	.8	.5	.7	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	84	9
12-13	.0	.0	.2	.1	.2	.4	.5	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	37	11
>13	.0	.0	.0	.2	.3	.2	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	15	9
INDET	3.5	.8	1.0	.7	1.3	.8	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
TOTAL	67	169	299	240	206	172	116	81	76	13	13	2	2	0	0	0	0	0	0	1456	6
PCT	4.6	11.6	20.5	16.5	14.1	11.8	8.0	5.6	5.2	.9	.9	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

JUNE

AREA 0036 POINT ARENA
38.3N 124.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.2	.8	.8	.0	.0	.0	.0	1.8	.2	.0	7.8	.4	5.1	.0	84.7
NE	2.9	.0	3.9	.0	.0	.0	.0	4.9	.0	.0	7.8	.5	3.9	.0	82.8
E	5.9	.0	.0	.0	.0	.0	.0	5.9	.0	.0	11.9	6.9	7.9	.0	67.3
SE	8.8	2.1	4.0	.0	.0	.0	.0	14.7	2.1	.0	31.8	.0	5.6	.0	45.7
S	3.5	.0	6.3	.0	.0	.0	.0	9.2	1.6	.0	15.3	.0	11.4	.0	62.4
SW	.0	.2	1.1	.0	.0	.0	.0	1.3	.9	.0	5.4	.5	12.7	.0	79.3
W	.2	.2	1.8	.0	.0	.0	.0	2.3	.8	.2	5.8	.0	10.6	.0	80.3
NW	.5	.0	1.3	.0	.0	.0	.0	1.8	.5	.1	10.0	.5	4.3	.2	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.5	6.3	.0	.0	.0	.0	8.8	3.8	1.3	28.8	1.3	.0	.0	56.3
TOT PCT	.7	.4	1.6	.0	.0	.0	.0	2.7	.7	.1	9.6	.5	6.5	.1	79.9
TOT OBS:	3276														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SNOW	NO SIG WEA
0000Z	.4	.0	1.3	.0	.0	.0	.0	1.8	.2	.0	7.6	.7	7.7	.1	81.9
0600Z	.9	.9	1.7	.0	.0	.0	.0	3.5	1.6	.5	9.3	.3	1.7	.0	83.1
1200Z	1.0	.6	2.4	.0	.0	.0	.0	3.9	.7	.0	10.1	.3	6.3	.0	78.6
1800Z	.5	.1	1.2	.0	.0	.0	.0	1.9	.4	.0	12.2	.4	9.5	.1	75.4
TOT PCT	.7	.4	1.7	.0	.0	.0	.0	2.7	.7	.1	9.8	.5	6.7	.1	79.5
TOT OBS:	3321														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.5	2.9	10.5	8.2	1.3	.1		23.6	20.0		23.1	11.4	28.5	27.7	31.9	15.7	31.1	15.2
NE	.3	.8	.5	.1	.0	.0		1.6	8.9		.9	2.1	2.1	1.5	1.8	2.5	1.0	1.7
E	.2	.5	.1	.0	.0	.0		.8	7.3		.9	.6	.5	.0	1.2	1.2	1.0	.5
SE	.3	1.8	.5	.0	.1	.0		2.7	8.4		3.1	1.1	2.5	2.4	2.5	3.9	2.8	
S	1.0	2.2	.6	.0	.0	.0		3.8	7.1		3.4	4.0	2.6	4.8	2.2	6.5	3.7	5.0
SW	1.9	6.3	3.1	.1	.0	.0		11.5	8.3		10.9	25.5	3.4	2.4	3.0	23.3	3.5	22.8
W	1.6	6.3	3.6	.7	.0	.0		12.2	9.6		11.8	22.4	6.6	7.7	4.5	18.9	7.4	21.4
NW	1.0	8.5	10.8	11.5	1.4	.0		41.1	17.7		43.8	31.9	50.2	51.2	48.7	27.4	44.4	29.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		2.1	1.0	3.6	2.4	4.4	2.1	4.0	.9
TOT OBS	338	1058	1364	745	101	5	3611		14.8		680	313	521	188	542	432	506	469
TOT PCT	9.4	29.3	37.8	20.6	2.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	12
N	1.5	6.3	11.3	4.2	.2		23.6	20.0	19.3	28.3	24.7	23.5
NE	.8	.6	.2	.0	.0		1.6	8.9	1.3	1.9	2.0	1.3
E	.5	.3	.0	.0	.0		.8	7.3	.8	.4	1.2	.8
SE	1.3	1.2	.1	.1	.0		2.7	8.4	2.5	2.5	2.5	3.4
S	2.1	1.5	.2	.0	.0		3.8	7.1	3.6	3.2	4.1	4.3
SW	4.8	5.9	.7	.0	.0		11.5	8.3	15.6	3.1	12.0	12.8
W	4.7	5.9	1.5	.1	.0		12.2	9.6	15.2	6.9	10.9	14.1
NW	3.8	13.0	16.9	5.1	.2		41.1	17.7	40.0	50.4	39.7	37.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	1.7	3.3	3.4	2.5
TOT OBS	808	1324	1119	343	17	3611		14.8	973	689	974	975
TOT PCT	22.4	36.7	31.0	9.5	.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

JUNE

AREA 0036 POINT ARENA
38.3N 124.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
0000Z	1.7	5.5	28.4	41.3	19.3	3.5	.2	15.3	100.0	973	
0600Z	3.3	3.0	22.4	40.5	27.1	3.5	.1	16.8	100.0	689	
1200Z	3.4	10.1	30.8	34.0	19.3	2.4	.1	13.8	100.0	974	
1800Z	2.5	7.0	33.6	36.1	18.7	2.1	.1	14.0	100.0	975	
TOT	97	241	1058	1364	745	101	5	14.8		3611	
PCT	2.7	6.7	29.3	37.8	20.6	2.8	.1	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.8	3.1	5.0	9.3		4.1
NE	.3	.2	.2	.6		5.2
E	.1	.1	.1	.6		6.6
SE	.2	.4	.4	2.6		7.3
S	.4	.0	.4	2.2		6.9
SW	.6	.4	1.0	1.6		5.8
W	1.7	.7	1.6	3.0		5.4
NW	20.0	5.1	6.8	15.6		4.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.5	2.4		6.8
TOT OBS	700	185	309	729	1923	4.6
TOT PCT	36.4	9.6	16.1	37.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.3	.2	.9	3.2	4.1	1.9	.7	.1	.1	.2	17.3	
NE	.1	.0	.1	.1	.2	.3	.0	.0	.0	.0	.6	
E	.1	.0	.9	.1	.3	.2	.0	.0	.0	.0	.2	
SE	.8	.1	.3	.5	.6	.6	.0	.0	.0	.1	.3	
S	.4	.0	.2	.6	.8	.2	.0	.0	.0	.1	.5	
SW	.3	.0	.2	.3	1.0	.6	.1	.1	.0	.0	1.1	
W	.4	.1	.3	.6	1.4	.8	.1	.2	.1	.0	3.0	
NW	3.0	.2	1.1	3.8	6.6	3.6	1.1	.2	.4	.1	27.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.3	.3	.8	.6	.1	.0	.0	.0	.7	
TOT OBS	135	11	82	182	303	169	41	12	10	7	991	1923
TOT PCT	7.0	.6	3.2	9.5	15.8	8.8	2.1	.6	.5	.4	51.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10		= OR >5		= OR >2		VSBY (NM) = OR >1		= OR >1/2		= OR >1/4		= OR >50YD		= OR >0	
= OR >6000	.6	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >4000	2.5	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= OR >3000	8.6	11.8	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >2000	18.8	26.5	28.0	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
= OR >1000	23.9	35.1	37.1	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
= OR >600	24.8	37.4	39.9	40.7	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
= OR >300	24.9	37.7	40.4	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
= OR >150	24.9	38.1	41.5	42.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
= OR >0	484	740	806	833	852	902	936	941								

TOTAL NUMBER OF OBS: 1940

PCT FREQ NM <5/8: 51.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
24.4	8.8	9.4	5.1	3.6	2.5	5.0	6.2	28.8	2015

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

JUNE

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.	.	.0	.0	.0	.0	.	.	.0	.0	.1	
	NO PCP	.7	.1	.1	.0	.1	.2	.3	1.6	.0	.4	4.0	
	TOT %	.7	.1	.1	.0	.1	.2	.3	1.6	.0	.4	4.1	
1/2<1	PCP	.0	.0	.0	.	.0	.0	.0	.0	.0	.0	.	
	NO PCP	.2	.	.0	.2	.1	.1	.2	.5	.0	.	1.2	
	TOT %	.2	.	.0	.2	.1	.1	.2	.5	.0	.	1.3	
1<2	PCP	.	.0	.0	.1	.1	.	.1	.1	.0	.1	.4	
	NO PCP	.3	.1	.	.1	.2	.2	.3	.6	.0	.1	1.8	
	TOT %	.3	.1	.	.2	.2	.2	.4	.6	.0	.1	2.1	
2<5	PCP	.1	.0	.0	.1	.	.1	.1	.2	.0	.1	.6	
	NO PCP	.7	.	.1	.2	.4	.7	1.2	1.2	.0	.2	4.8	
	TOT %	.8	.	.1	.3	.4	.8	1.3	1.4	.0	.3	5.4	
5<10	PCP	.3	.	.	.1	.1	.1	.1	.4	.0	.1	1.3	
	NO PCP	5.5	.4	.2	.6	1.3	4.1	4.1	9.3	.0	.2	25.8	
	TOT %	5.9	.5	.2	.7	1.4	4.2	4.2	9.7	.0	.3	27.1	
10+	PCP	.0	.0	.0	.	.1	.	.1	.1	.0	.0	.2	
	NO PCP	15.8	.9	.3	.9	1.4	6.8	6.1	26.3	.0	1.2	59.7	
	TOT %	15.8	.9	.3	.9	1.5	6.8	6.2	26.3	.0	1.2	60.0	
TOT OBS													3272
TOT PCT													
		23.8	1.6	.8	2.9	3.7	12.3	12.5	40.2	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.1	.	.1	.1	.	.	.1	.1	.0	.4	.9	
	4-10	.3	.1	.1	.4	.1	.2	.2	.5	.0	.	1.9	
	11-21	.3	.0	.0	.	.	.	.0	.8	.0	.	1.2	
	22+	.2	.0	.0	.0	.0	.0	.0	.3	.0	.	.5	
	TOT %	.8	.1	.2	.5	.2	.3	.3	1.7	.0	.4	4.5	
1/2<1	0-9	.	.0	.0	.1	.1	.	.0	.0	.0	.	.2	
	4-10	.1	.	.	.1	.1	.0	.1	.2	.0	.	.8	
	11-21	.1	.0	.0	.	.	.	.	.2	.0	.	.4	
	22+	.	.0	.0	.0	.0	.	.0	.1	.0	.	.2	
	TOT %	.2	.	.	.2	.2	.1	.2	.5	.0	.	1.4	
1<2	0-9	.	.	.	.	.	.	.1	.1	.0	.2	.8	
	4-10	.1	.1	.0	.1	.1	.1	.2	.2	.0	.	.8	
	11-21	.1	.	.0	.1	.1	.	.1	.3	.0	.	.8	
	22+	.1	.0	.0	.0	.0	.	.0	.1	.0	.	.2	
	TOT %	.4	.2	.	.2	.3	.3	.3	.6	.0	.2	2.6	
2<5	0-9	.1	.	.	.	.	.2	.1	.2	.1	.3	1.0	
	4-10	.3	.	.1	.2	.2	.4	.6	.4	.0	.	2.2	
	11-21	.5	.0	.0	.2	.1	.2	.3	.8	.0	.	2.0	
	22+	.2	.0	.0	.0	.0	.	.1	.3	.0	.	.6	
	TOT %	1.0	.1	.1	.3	.4	.8	1.2	1.9	.0	.3	5.8	
5<10	0-9	.1	.1	.	.1	.2	.4	.6	.2	.0	.3	2.0	
	4-10	.4	.2	.2	.5	.8	1.9	1.7	1.6	.0	.	7.3	
	11-21	2.5	.2	.0	.1	.2	1.6	1.4	4.5	.0	.	10.4	
	22+	2.7	.	.	.	.	.1	.3	3.5	.0	.	6.7	
	TOT %	5.7	.5	.2	.7	1.4	4.0	4.0	9.7	.0	.3	26.4	
10+	0-9	.2	.1	.	.1	.2	1.4	.6	.6	.0	1.3	4.4	
	4-10	1.7	.4	.1	.6	1.0	3.9	3.4	5.0	.0	.	16.2	
	11-21	7.1	.3	.1	.2	.3	1.3	1.8	12.2	.0	.	23.3	
	22+	6.6	.	.0	.	.0	.	.2	6.5	.0	.	15.3	
	TOT %	15.7	.8	.3	.9	1.3	6.5	6.0	26.4	.0	1.3	59.4	
TOT OBS													3454
TOT PCT													
		23.7	1.6	.8	2.8	4.0	11.9	12.2	40.5	.0	2.5	100.0	

JUNE

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973AREA 0036 POINT ARENA
38.5M 124.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	5.2	.8	3.3	7.1	15.8	8.9	2.3	.2	.4	.2	44.2	38.8	318							
06009	7.2	.4	2.0	8.7	14.3	8.0	2.0	1.0	.6	.4	44.5	38.3	303							
12015	6.6	.2	4.1	11.6	16.7	9.9	2.6	.4	.6	.4	53.1	46.9	467							
18021	8.8	.8	3.9	9.8	15.3	8.2	1.4	.8	.6	.4	49.7	30.3	489							
TOT	137	11	43	183	307	172	41	12	11	7	944	1033	1977							
PCT	6.9	.6	3.2	9.3	15.3	8.7	2.1	.8	.6	.4	47.7	32.3	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	3.3	1.1	2.2	3.2	29.4	58.6	999
06009	4.8	.9	1.3	4.2	24.3	64.3	670
12015	4.9	1.9	3.8	6.7	25.8	56.9	943
18021	3.0	2.1	2.6	7.1	25.4	57.8	947
TOT	158	54	91	207	923	2066	3501
PCT	4.3	1.3	2.6	5.9	26.4	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 41	<1000 43	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	3.3	9.6	20.0	23.7	34.3	310
06009	7.2	10.1	20.3	23.2	34.3	497
12015	6.7	11.6	26.2	29.8	44.0	430
18021	8.9	14.3	23.7	23.9	48.4	483
TOT	136	220	446	513	979	1940
PCT	7.0	11.3	23.0	26.3	50.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.2	.3	.1	.0	.0	.0	17	.7
75/79	.0	.1	.3	.9	.4	.1	.1	.2	94	2.2
70/74	.0	.8	.3	1.2	.9	.3	.2	.1	80	3.2
65/69	.0	.0	.2	.7	2.3	2.0	.8	.6	106	6.7
60/64	.0	.0	.0	.3	3.4	6.9	5.6	2.3	439	18.3
55/59	.0	.0	.0	.1	1.2	10.0	21.7	11.6	1108	44.7
50/54	.0	.0	.0	.0	.2	2.3	10.7	10.2	386	23.6
45/49	.0	.0	.0	.0	.0	.0	.0	.4	11	.4
TOT	0	8	24	86	210	347	972	634	2481	100.0
PCT	.0	.3	1.0	3.5	8.5	22.0	39.2	25.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.3	.2	.0	.0	.1
75/79	.1	.0	.0	.0	.2	1.1	.3	.2	.0	.0
70/74	.1	.0	.0	.1	.2	1.6	1.0	.2	.0	.0
65/69	.6	.2	.1	.1	.3	2.3	1.8	.9	.0	.2
60/64	3.8	.1	.2	.3	1.0	3.7	3.8	3.0	.0	.4
55/59	12.9	.8	.3	.9	1.6	3.8	4.3	19.1	.0	.3
50/54	3.8	.4	.1	.4	.8	1.7	2.0	12.2	.0	.3
45/49	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0
TOT	23.3	1.6	.9	1.9	4.4	14.7	13.6	37.9	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	78	71	58	52	30	46	39.3	977
06009	70	64	62	55	51	48	45	35.5	686
12015	76	72	64	55	50	48	45	36.1	987
18021	84	79	74	58	52	30	46	39.4	975
TOT	84	76	69	57	51	49	45	37.7	3625

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.6	11.9	24.5	38.4	18.6	80	720		
06009	.0	.7	1.8	18.9	46.9	31.6	86	423		
12015	.0	.7	5.7	16.9	41.7	35.0	86	869		
18021	.0	9.1	11.3	23.6	32.8	21.2	80	683		
TOT	0	118	210	349	986	632	83	2315		

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1875-1973

JUNE

TABLE 17

AREA 0036 POINT ARENA
38.5N 124.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.1
14/16	.0	.0	.0	.0	.0	.2	.2	.2	.2	.0	26	.0	.9
11/13	.0	.0	.0	.2	.4	.2	.5	.1	.2	.0	48	.1	1.6
9/10	.0	.0	.1	.7	.5	.5	.1	.3	.0	.0	65	.1	2.2
7/8	.0	.0	.0	2.2	1.3	.0	.2	.4	.0	.0	192	.5	5.0
6	.0	.1	1.1	1.2	.7	.3	.3	.1	.0	.0	107	.1	3.7
5	.0	.1	1.2	1.7	.9	.4	.1	.0	.0	.0	123	.6	3.8
4	.0	.2	2.5	2.8	1.5	.1	.0	.0	.0	.0	203	.9	6.4
3	.0	.9	3.8	1.8	.9	.4	.1	.0	.0	.0	223	1.0	7.0
2	.0	1.2	4.1	4.2	1.0	.4	.0	.0	.0	.0	309	1.0	10.0
1	.0	2.0	4.3	2.5	.9	.2	.0	.0	.0	.0	280	1.6	8.4
0	.1	1.6	3.7	4.7	.9	.2	.0	.0	.0	.0	371	1.5	11.8
-1	.1	.9	4.0	2.0	.7	.1	.0	.0	.0	.0	218	1.0	6.7
-2	.0	1.2	3.9	2.3	1.0	.1	.0	.0	.0	.0	239	.8	7.7
-3	.0	.8	2.4	1.3	.5	.0	.0	.0	.0	.0	143	.3	4.8
-4	.1	.6	1.7	.8	.4	.0	.0	.0	.0	.0	99	.3	3.2
-5	.2	.3	1.4	.4	.4	.0	.0	.0	.0	.0	74	.2	2.4
-6	.1	.1	.4	.5	.1	.0	.0	.0	.0	.0	35	.1	1.2
-7/-8	.2	.3	.7	.5	.1	.0	.0	.0	.0	.0	51	.1	1.7
-9/-10	.1	.3	.4	.1	.0	.0	.0	.0	.0	.0	22	.1	.8
-11/-12	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	7	.0	.2
TOTAL	26	302	1085	842	343	108	44	32	16	3	2801	295	2506
PCT	.9	10.8	38.7	30.1	12.2	3.9	1.6	1.1	.6	.1	100.0	10.5	89.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.1	1.3	1.1	.0	.0	.0	2.7	.1	.4	.3	.0	.0	.0	.6
3-4	.0	1.2	4.1	1.2	.0	.0	6.5	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.2	3.9	1.3	.2	.0	5.6	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	3.4	2.2	.3	.0	5.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.5	2.9	.1	.0	3.6	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.7	.2	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.1	.1	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.7	13.3	8.6	1.1	.1	26.9	.1	.6	.6	.0	.0	.0	1.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.2	.0	.0	.0	.0	.3	.4	1.4	.0	.0	.0	.0	1.7
1-2	.1	.3	.0	.0	.0	.0	.4	.0	.6	.5	.0	.0	.0	1.1
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.6	.5	.0	.0	.0	1.1
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.0	.0	.0	.0	1.1	.4	2.7	1.1	.0	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1973

JUNE
TABLE 18 (CONT)

AREA 0036 PDINT ARENA
38.3N 124.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.0	.0	.0	.0	1.4	.3	.5	.0	.0	.0	.0	.7
1-2	.0	1.3	.2	.0	.0	.0	1.4	.1	1.3	.2	.0	.0	.0	1.7
3-4	.1	.4	.2	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.5
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.6	.4	.1	.0	.0	3.6	.4	2.4	.3	.1	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.8	.0	.0	.0	.0	1.3	.9	2.1	.3	.0	.0	.0	2.9	
1-2	.0	.9	.6	.0	.0	.0	1.4	.1	4.9	3.3	.0	.0	.0	8.3	
3-4	.0	.2	.4	.0	.0	.0	.6	.0	2.0	6.3	1.7	.0	.0	10.2	
5-6	.0	.2	.4	.3	.0	.0	.9	.1	.9	6.7	2.7	.3	.0	10.6	
7	.0	.0	.1	.1	.0	.0	.2	.1	.1	4.6	2.6	.1	.0	7.5	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	2.2	2.9	.1	.0	5.3	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.8	1.8	.0	.0	2.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1	.3	.0	1.6	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	2.0	1.5	.5	.0	.0	4.5	.8	10.2	24.4	13.3	1.2	.0	49.9	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	6.5	.3	.0	.0	.0	14.5	
1-2	.5	11.3	6.1	.0	.0	.0	17.9	
3-4	.1	5.2	11.7	2.9	.0	.0	19.9	
5-6	.1	1.6	11.4	4.4	.5	.0	18.0	
7	.1	.2	8.1	5.0	.3	.0	13.7	
8-9	.0	.2	2.9	5.7	.2	.0	9.0	
10-11	.0	.0	1.2	2.6	.2	.0	3.9	
12	.0	.0	.1	1.5	.4	.1	2.1	
13-16	.0	.0	.0	.5	.4	.0	1.0	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	25.0	41.7	22.5	2.2	.1	100.0	941

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.3	10.7	7.3	3.5	1.9	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	628	4
6-7	.0	1.4	7.5	7.2	8.0	3.6	2.4	1.2	1.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	556	6
8-9	.0	.7	1.8	2.3	3.8	2.3	2.6	1.3	1.3	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	291	8
10-11	.0	.6	.9	1.1	.8	1.4	.8	.8	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	138	8
12-13	.0	.0	.4	.2	.4	.3	.6	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	44	8
>13	.0	.0	.0	.1	.3	.1	.1	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	11
INDET	1.8	.7	.5	1.2	1.3	.6	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
TOTAL	51	229	392	349	284	187	134	72	71	14	8	2	3	0	0	0	0	0	0	1796	6
PCT	2.8	12.8	21.8	19.4	15.8	10.4	7.5	4.0	4.0	.8	.4	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1861-1973

JULY

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
N	.1	.2	2.7	.0	.0	.0	.0	3.0	.1	.1	10.0	.6	4.3	.0	82.0
NE	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	.4	11.9	.4	.9	.0	84.3
E	.0	.0	6.7	.0	.0	.0	.0	6.7	.0	.0	22.7	.0	1.7	.0	68.9
SE	1.5	.0	4.6	.0	.0	.0	.0	4.6	.0	.0	26.3	1.5	7.3	.0	60.2
S	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	16.9	.6	10.1	.0	71.9
SW	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	7.0	.2	6.0	.0	85.3
W	.3	.0	.9	.0	.0	.0	.0	1.2	.5	.0	6.8	.3	5.9	.0	85.4
NW	.1	.1	1.7	.0	.0	.0	.1	2.0	.2	.0	11.1	.3	6.5	.1	79.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.7	.0	12.0	.0	57.3
TOT PCT	.1	.1	1.8	.0	.0	.0	*	2.0	.2	*	10.5	.4	5.9	*	81.0
TOT OBS:	3785														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	
06003	.1	.0	1.4	.0	.0	.0	.1	1.6	.1	.0	6.1	.4	5.1	.1	86.7
06209	.0	.2	1.9	.0	.0	.0	.0	2.1	.0	.0	11.5	.4	4.1	.0	82.0
12615	.2	.2	2.9	.0	.0	.0	.0	3.3	.6	.1	14.1	.4	7.0	.0	74.5
18621	.2	.0	.9	.0	.0	.0	.0	1.0	.0	.0	11.7	.4	7.3	.0	79.6
TOT PCT	.1	.1	1.8	.0	.0	.0	*	2.0	.2	*	10.6	.4	6.0	*	80.8
TOT OBS:	3838														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.7	11.1	8.4	.8	.1		24.7	19.0		23.0	13.0	34.3	39.1	37.1	12.7	39.7	15.1
NE	.2	.6	.9	.2	*	.0		1.9	11.7		.9	1.5	1.7	1.2	1.7	2.2	1.3	1.7
E	.3	.4	*	*	.0	.0		.8	6.3		.1	.9	.6	.6	1.8	1.2	.7	.6
SE	.4	1.5	.2	.0	.0	.0		2.0	6.2		2.0	.9	.9	.4	1.4	4.9	1.7	2.0
S	.8	2.9	.7	*	.0	.0		4.4	7.0		4.3	3.8	1.5	1.2	2.1	9.6	3.6	5.7
SW	2.1	6.6	4.1	.6	*	.0		13.4	9.4		12.8	26.5	.7	.6	.8	28.2	3.3	20.8
W	2.3	6.7	6.7	1.3	.1	.0		17.0	11.1		21.1	29.8	4.9	3.7	5.7	21.1	5.3	28.8
NW	.9	6.3	19.7	9.7	.9	.1		33.6	17.8		34.2	22.3	52.0	49.4	49.4	18.2	41.0	23.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		1.6	1.3	3.4	3.6	4.0	2.0	3.4	2.0
TOT OBS	419	1194	1624	845	78	5	4165		14.3		798	465	448	167	347	602	474	664
TOT PCT	10.1	28.7	39.0	20.3	1.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.0	7.3	11.4	3.9	.1			24.7	19.0	19.3	35.6	24.3	25.3
NE	.5	.7	.3	.1	.0			1.5	11.7	1.1	1.6	2.0	1.5
E	.5	.2	*	.0	.0			.8	6.3	.4	.4	1.5	.7
SE	1.3	.7	.0	.0	.0			2.0	6.2	1.6	.9	3.2	1.9
S	2.4	1.9	.1	*	.0			4.4	7.0	4.1	1.4	6.0	4.9
SW	4.7	7.3	1.1	.2	.0			13.4	9.4	17.8	.7	15.1	13.5
W	4.8	8.9	2.8	.5	.0			17.0	11.1	24.3	4.6	13.8	19.0
NW	2.9	12.0	14.4	4.1	.1			33.6	17.8	29.8	31.3	31.1	30.7
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.5	3.6	3.0	2.5
TOT OBS	904	1630	1260	362	9	4165			14.3	1263	615	1149	1136
TOT PCT	21.7	39.1	30.3	8.7	.2	100.0				100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	1.3	6.3	25.9	43.9	19.9	2.4	.2	15.2	100.0	1263
06009	3.6	2.3	19.5	41.6	29.8	3.3	.0	17.5	100.0	615
12015	3.0	10.8	35.1	31.8	18.2	1.1	.1	13.0	100.0	1149
18021	2.5	8.6	30.2	39.4	17.8	1.3	.2	13.6	100.0	1138
TOT	104	315	1194	1624	845	78	5	14.5		4165
PCT	2.5	7.6	28.7	39.0	20.3	1.9	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	13.1	3.2	5.9	16.9		4.8
NE	.4	.1	.1	1.1		6.1
E	.1	.0	.1	.4		6.4
SE	.0	.0	.2	1.4		7.7
S	.4	.1	.3	1.3		6.1
SW	.2	.1	.2	1.3		6.7
W	2.0	.5	.7	2.8		4.9
NW	19.1	2.7	6.2	16.9		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.2	2.1		6.9
TOT OBS	605	115	236	746	1702	4.8
TOT PCT	35.5	6.8	13.9	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.9	.2	2.0	4.5	8.2	3.8	.5	.2	.0	.0	.0	17.2
.0	.0	.3	.3	.3	.2	.0	.0	.0	.0	.0	.5
.2	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.1
.4	.1	.2	.3	.4	.2	.1	.0	.0	.0	.0	.0
.4	.1	.2	.6	.2	.2	.0	.0	.0	.0	.0	.6
.3	.0	.4	.3	.4	.1	.0	.0	.0	.0	.0	.4
.5	.1	.4	.7	.9	.5	.2	.0	.0	.0	.1	2.6
2.8	.2	2.1	4.9	7.5	3.3	.5	.4	.0	.0	.1	23.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.8	.0	.1	.5	.5	.4	.0	.0	.0	.0	.1	.4
122	13	97	208	313	149	21	11	1	5	762	1702
7.2	.8	5.7	12.2	16.4	8.8	1.2	.6	.1	.3	44.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.1	.4	.4	.4	.4	.4	.4	.4
>5000	.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	1.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>2000	7.8	10.9	11.0	11.0	11.0	11.0	11.0	11.0
>1000	18.5	28.1	29.0	29.2	29.2	29.3	29.3	29.3
>800	24.1	39.1	40.9	41.3	41.4	41.5	41.5	41.5
>600	25.4	43.0	43.8	46.5	46.9	47.1	47.2	47.2
>400	25.3	43.4	46.3	47.0	47.5	47.8	47.9	47.9
>200	25.6	43.8	47.7	49.7	51.2	52.7	54.5	54.9
TOTAL	437	748	815	848	874	899	931	937

TOTAL NUMBER OF OBS: 1707

PCT FREQ NM <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
24.0	7.8	5.9	3.4	3.4	2.9	5.1	6.5	35.2	5.8
									1801

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1861-1973

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TABLE 8

AREA 0036 POINT ARENA
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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT
<1/2	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
	NO PCP	.3	.0	.1	.2	.3	.1	.4	1.0	.0	.3	2.9
	TOT %	.3	.0	.1	.2	.3	.1	.4	1.1	.0	.3	3.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.1	.1	.1	.2	.3	.2	.3	.0	.0	2.1
	TOT %	.8	.1	.1	.1	.2	.3	.2	.3	.0	.0	2.2
1<2	PCP	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
	NO PCP	.4	.1	.0	.0	.2	.4	.4	.9	.0	.1	2.4
	TOT %	.5	.1	.0	.1	.2	.5	.4	.9	.0	.1	2.7
2<5	PCP	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.5
	NO PCP	1.0	.1	.0	.2	.5	.6	.8	1.3	.0	.2	4.7
	TOT %	1.1	.1	.0	.2	.5	.7	.9	1.5	.0	.2	5.2
5<10	PCP	.4	.0	.1	.0	.0	.0	.1	.3	.0	.0	.9
	NO PCP	7.1	.4	.3	.6	2.1	6.8	8.5	9.2	.0	.5	35.6
	TOT %	7.5	.4	.4	.6	2.1	6.8	8.5	9.5	.0	.5	36.5
10+	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
	NO PCP	14.3	.9	.2	.5	1.3	5.8	7.8	18.7	.0	.8	50.2
	TOT %	14.4	.9	.2	.5	1.3	5.8	7.8	18.8	.0	.8	50.4
TOT OBS												
TOT PCT												
		24.8	1.6	.8	1.7	4.5	14.2	18.3	32.2	.0	2.0	100.0
												3780

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.0	.0	.0	.0	.1	.0	.4	.7	
	4-10	.2	.0	.1	.2	.2	.1	.4	.3	.0	.0	1.6	
	11-21	.3	.0	.0	.0	.0	.0	.1	.5	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.6	.0	.1	.3	.3	.1	.5	1.2	.0	.4	3.5	
1/2<1	0-3	.0	.0	.1	.1	.0	.1	.0	.0	.0	.1	.4	
	4-10	.3	.1	.0	.1	.2	.2	.1	.1	.0	.0	1.0	
	11-21	.3	.0	.0	.0	.0	.1	.0	.2	.0	.0	.7	
	22+	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	.8	.1	.1	.2	.3	.3	.2	.5	.0	.1	2.4	
1<2	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	.5	
	4-10	.1	.0	.0	.0	.2	.4	.2	.2	.0	.0	1.2	
	11-21	.3	.0	.0	.1	.0	.2	.1	.4	.0	.0	1.1	
	22+	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	.6	.1	.0	.1	.3	.7	.3	.9	.0	.2	3.3	
2<5	0-3	.0	.0	.0	.1	.0	.1	.2	.1	.0	.3	.7	
	4-10	.3	.0	.0	.2	.4	.5	.4	.6	.0	.0	2.4	
	11-21	.6	.0	.0	.0	.2	.4	.6	.8	.0	.0	1.8	
	22+	.3	.0	.0	.0	.0	.0	.0	.5	.0	.0	.9	
	TOT %	1.3	.1	.0	.3	.5	.8	1.0	1.8	.0	.3	5.9	
5<10	0-3	.1	.1	.2	.1	.3	.4	.4	.2	.0	.3	2.3	
	4-10	.9	.1	.1	.4	1.2	3.0	2.7	1.3	.0	.0	9.9	
	11-21	3.0	.2	.0	.1	.5	2.7	4.2	4.3	.0	.0	19.0	
	22+	3.4	.1	.1	.0	.0	.4	.9	3.4	.0	.0	8.2	
	TOT %	7.4	.4	.4	.6	2.0	6.3	8.2	9.4	.0	.3	35.4	
10+	0-3	.2	.2	.1	.1	.3	1.6	1.6	.3	.0	.8	5.1	
	4-10	1.9	.4	.1	.4	.9	2.7	3.2	3.2	.0	.0	12.7	
	11-21	8.8	.2	.0	.0	.2	1.1	2.1	9.5	.0	.0	19.9	
	22+	9.2	.1	.0	.0	.2	.5	3.8	.0	.0	.0	11.8	
	TOT %	14.0	.9	.2	.6	1.3	5.6	7.3	18.8	.0	.8	49.5	
TOT OBS													
TOT PCT													
		24.7	1.6	.8	1.9	4.6	14.0	17.7	32.5	.0	2.1	100.0	3934

JULY

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1861-1973AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 289	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 49.1	NM <5/8 ANY HGT	TOTAL OBS
00003	5.1	1.1	4.2	12.8	16.7	6.6	1.1	.4	.2	.9	49.1	30.9	454
06009	5.7	.2	6.0	8.3	13.6	9.0	.2	1.0	.0	.0	44.0	36.0	420
12015	10.2	.9	5.0	13.9	19.9	8.7	1.4	.7	.0	.0	60.8	39.2	423
18021	7.1	.7	7.4	12.5	21.7	10.0	2.0	.4	.0	.2	62.1	37.9	448
TOT	122	13	98	208	314	130	21	11	1	5	943	802	1745
PCT	7.0	.7	5.6	11.9	18.0	8.6	1.2	.6	.1	.3	54.0	46.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.9	1.3	2.9	4.9	39.4	48.6	1221
06009	4.7	1.5	2.0	4.5	27.1	60.1	594
12015	3.9	4.2	4.6	7.2	36.6	43.4	1097
18021	3.5	3.0	3.3	6.1	34.0	50.1	1096
TOT	144	104	135	233	1417	1975	4008
PCT	3.6	2.6	3.4	5.8	35.4	49.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	5.0	10.7	25.3	25.5	49.2	439
06009	5.3	12.1	22.9	22.9	54.1	414
12015	10.5	16.6	32.9	30.5	59.6	410
18021	7.2	15.5	30.2	33.1	56.7	444
TOT	119	234	475	479	753	1707
PCT	7.0	13.7	27.8	28.1	44.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
83/89	.0	.0	.0	.1	.0	.0	.0	.0	4	.1
80/84	.0	.0	.1	.1	.1	.1	.1	.0	15	.5
75/79	.0	.0	.2	.8	.2	.1	.0	.2	47	1.5
70/74	.0	.0	.2	.8	1.3	.8	.1	.3	119	3.6
65/69	.0	.0	.1	.6	2.2	3.5	2.1	.7	295	9.2
60/64	.0	.0	.0	.1	2.4	10.7	12.7	4.2	958	30.0
55/59	.0	.0	.0	.0	.3	5.1	23.4	14.6	1385	43.4
50/54	.0	.0	.0	.0	.0	.1	4.2	7.1	363	11.4
45/49	.0	.0	.0	.0	.0	.0	.0	.3	10	.3
TOTAL	0	2	17	84	204	650	1358	877	3192	100.0
PCT	.0	.1	.5	2.6	6.4	20.4	42.5	27.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
83/89	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
75/79	.0	.1	.0	.0	.2	.7	.5	.0	.0	.0
70/74	.2	.0	.0	.1	.4	1.2	1.2	.2	.0	.2
65/69	1.1	.1	.1	.2	.6	2.8	2.9	1.4	.0	.1
60/64	6.8	.6	.2	.6	1.4	5.0	7.1	8.0	.0	.2
55/59	11.1	.4	.3	.9	2.1	5.4	7.3	14.9	.0	.9
50/54	2.5	.1	.1	.2	.4	1.1	1.1	3.5	.0	.4
45/49	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0
TOTAL	21.8	1.4	.7	2.0	5.3	16.5	20.2	30.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	78	71	60	54	52	49	60.9	1270
06009	86	64	63	57	52	50	49	57.2	623
12015	80	72	64	57	52	50	47	57.7	1158
18021	85	77	71	60	54	52	50	60.3	1143
TOT	87	76	69	59	53	50	47	59.4	4194

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	8.9	25.9	42.1	18.3	81	1049
06009	.0	.2	1.8	8.2	30.2	39.5	88	438
12015	.0	1.4	2.9	12.8	43.9	39.0	87	876
18021	.0	4.8	9.7	27.3	37.5	20.7	81	858
TOT	0	104	209	654	1369	883	84	3221

JULY

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1861-1973

TABLE 17

AREA 0036 POINT ARENA
38.5N 123.9WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	85	TOT	M FOG	MO FOG
48	52	56	60	64	68	72	76	80	84	88				
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	1	.0	.
17/19	.0	.0	.0	.0	.0	.0	.	.	.	.	.	3	.0	.1
14/16	.0	.0	.0	.0	.	.1	.2	.1	.1	.1	.	16	.1	.4
11/13	.0	.0	.1	.1	.3	.4	.2	.1	.2	.	.	40	.0	1.3
9/10	.0	.0	.0	.3	.7	.5	.4	.3	.1	.0	.	77	.1	2.3
7/8	.0	.0	.3	1.7	1.4	.7	.3	.2	.1	.0	.	152	.6	4.2
6	.0	.	.5	1.2	1.2	.3	.1	.1	.0	.0	.	111	.1	3.3
5	.0	.1	1.1	1.8	1.4	.6	.3	.1	.0	.0	.	171	.4	5.0
4	.0	.1	1.8	2.8	2.3	.6	.2	.0	.0	.0	.	250	.7	7.1
3	.0	.2	1.9	2.6	1.4	.6	.3	.0	.0	.0	.	221	.8	6.1
2	.0	.3	2.3	3.1	2.4	.7	.3	.0	.0	.0	.	293	1.0	8.2
1	.0	.4	2.9	2.6	2.1	.6	.1	.0	.0	.0	.	278	1.2	7.5
0	.0	.8	3.0	4.6	2.7	.3	.1	.0	.0	.0	.	364	1.6	9.8
-1	.	.3	2.3	3.3	1.5	.3	.0	.0	.0	.0	.	250	.9	6.9
-2	.	.6	1.9	4.7	1.3	.2	.0	.0	.0	.0	.	276	.8	7.8
-3	.	.3	1.0	4.3	.8	.2	.0	.0	.0	.0	.	213	.7	6.0
-4	.0	.2	1.6	2.7	.5	.0	.0	.0	.0	.0	.	157	.6	4.3
-5	.0	.2	1.2	1.6	.4	.0	.0	.0	.0	.0	.	111	.5	3.0
-6	.1	.1	1.3	1.1	.3	.0	.0	.0	.0	.0	.	89	.4	2.3
-7/-8	.0	.2	1.3	1.1	.1	.0	.0	.0	.0	.0	.	84	.3	2.4
-9/-10	.0	.1	.4	.	.	.0	.0	.0	.0	.0	.	30	.1	.9
-11/-13	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.	9	.	.3
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.	2	.1	.0
TOTAL	4		803		667		74		16		2	3198	346	2852
PCT	.1	3.8	25.1	40.1	20.9	6.2	2.3	.9	.5	.1	.1	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.4	.0	.0	.0	1.5	.0	.	.0	.0	.0	.0	.
1-2	.0	2.1	2.5	.0	.0	.0	4.9	.0	.6	.3	.0	.0	.0	.9
3-4	.0	1.5	6.4	1.5	.0	.0	9.3	.0	.2	.2	.0	.0	.0	.4
5-6	.1	.3	4.3	3.2	.0	.0	7.9	.0	.	.1	.0	.0	.0	.1
7	.0	.2	2.6	2.7	.4	.0	5.8	.0	.0	.	.	.0	.0	.1
8-9	.0	.0	.8	2.1	.3	.0	3.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.1	.6	1.1	.1	.0	1.9	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.2	1.2	.0	.0	1.4	.0	.0	.	.	.0	.0	.
13-16	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.3	17.8	12.2	1.3	.1	37.0	.0	.9	.7	.2	.0	.0	1.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.4	.0	.0	.0	.0	.4	.1	.6	.2	.0	.0	.0	1.0
3-4	.0	.2	.1	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.	.0	.0	.
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.1	.0	.0	.0	.9	.1	1.2	.4	.0	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.2	.8	.1	.0	.0	.0	1.1	.0	.3	.2	.0	.0	.0	.0	.5
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	.4	.0	.0	.0	2.9	.0	.6	.6	.0	.0	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.3	.0	.0	.0	.0	.5	.2	.7	.2	.0	.0	.0	1.2	
1-2	.4	1.0	.4	.0	.0	.0	1.8	.1	1.8	3.5	.0	.0	.0	5.3	
3-4	.2	1.0	1.0	.3	.0	.0	2.5	.0	3.4	6.7	2.2	.0	.0	14.4	
5-6	.0	.2	.0	.0	.1	.0	.3	.0	.5	6.9	3.0	.0	.0	10.5	
7	.0	.0	.2	.0	.1	.0	.3	.0	.2	2.7	4.5	.3	.0	7.6	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.1	1.1	2.0	.3	.0	3.5	
10-11	.0	.0	.0	.2	.1	.0	.3	.0	.0	.5	1.1	.1	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	2.4	1.7	.6	.3	.0	5.9	.3	6.8	23.7	14.0	1.4	.1	46.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	3.9	.6	.0	.0	.0	7.4	
1-2	1.1	7.5	7.3	.0	.0	.0	15.8	
3-4	.2	6.7	16.9	4.0	.0	.0	27.8	
5-6	.1	1.4	11.4	6.2	.1	.0	19.2	
7	.0	.4	5.6	7.2	.8	.0	14.0	
8-9	.0	.1	2.0	4.1	.8	.0	7.0	
10-11	.0	.1	1.3	2.5	.4	.0	4.2	
12	.0	.0	1.4	1.6	.0	.0	2.0	
13-16	.0	.0	.0	1.3	.6	.1	2.0	
17-19	.0	.0	.0	.1	.0	.1	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	20.0	45.4	27.0	3.0	.2	100.0	853

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	6.7	12.8	7.3	4.4	2.4	1.1	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	4
6-7	.1	1.1	5.7	7.0	7.0	3.8	2.3	1.1	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	477	6
8-9	.0	.6	1.6	3.4	3.5	3.5	2.4	1.1	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	276	7
10-11	.0	.4	.7	.6	1.2	1.1	1.2	.4	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	106	8
12-13	.0	.0	.7	.7	.6	.2	.2	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
>13	.0	.0	.0	.2	.1	.1	.1	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	21	14
INDET	1.2	.5	.7	.8	.5	.5	.6	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	85	5
TOTAL	36	150	358	322	277	186	126	58	69	10	10	5	0	0	0	0	0	0	0	1607	6
PCT	2.2	9.3	22.3	20.0	17.2	11.6	7.8	3.6	4.3	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

AUGUST

AREA 0036 POINT ARENA
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG W0 PCPN	FGG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.3	.0	2.1	.0	.0	.0	.0	2.5	.0	.1	8.7	.7	6.0	.1	81.9
NE	1.0	.0	.3	.0	.0	.0	.0	1.3	.0	.0	9.8	.3	5.9	.0	82.7
E	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	19.6	.0	4.3	.0	74.5
SE	2.7	.0	1.3	.0	.0	.0	.0	4.2	1.2	.0	25.3	.0	9.3	.0	59.9
S	.5	.5	1.2	.0	.0	.0	.0	2.3	.0	.0	7.5	.5	10.1	.0	79.5
SW	.2	.0	.3	.0	.0	.0	.0	.5	.0	.0	5.4	.0	13.2	.0	80.9
W	.2	.0	.5	.0	.0	.0	.0	.5	.2	.0	8.5	.0	9.2	.0	81.7
NW	.4	.1	1.3	.0	.0	.0	.0	1.6	.2	.0	13.6	.6	6.1	.1	77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.5	.0	21.8	.0	57.7
TOT PCT	.5	.1	1.2	.0	.0	.0	.0	1.5	.1	*	10.6	.4	8.2	.1	79.1
TOT OBS:	3652														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG W0 PCPN	FGG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.2	.0	.7	.0	.0	.0	.0	.8	.1	.0	7.3	.2	8.0	.0	83.6
0600	.5	.2	1.4	.0	.0	.0	.0	2.0	.4	.0	12.9	.9	3.0	.2	80.7
1200	.8	.0	1.6	.0	.0	.0	.0	2.1	.2	.0	12.2	.3	9.5	.0	75.6
1800	.4	.1	.9	.0	.0	.0	.0	1.3	.2	.1	11.6	.4	9.4	.1	76.9
TOT PCT TOT OBS:	.5 3707	.1	1.1	.0	.0	.0	.0	1.5	.2	*	10.7	.4	8.1	.1	79.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.8	4.3	10.1	6.8	1.0	.0		22.9	18.0		20.7	12.8	34.8	27.0	36.1	11.0	36.2	13.4
NE	.7	1.1	.6	.2	.0	.0		2.6	9.1		1.3	3.3	2.7	2.0	3.7	3.3	2.3	2.5
E	.2	1.0	.1	.0	.0	.0		1.4	7.0		.7	2.4	.5	1.4	1.0	2.2	.7	2.1
SE	.6	1.3	.3	.0	.0	.0		2.2	6.3		1.4	2.0	1.6	2.8	.9	3.1	2.9	3.0
S	1.5	2.0	1.1	.1	.0	.0		4.8	7.3		4.4	6.8	2.0	.9	1.4	8.5	2.5	7.7
SW	2.0	6.0	4.0	.2	.0	.0		12.2	8.9		14.3	19.9	1.3	2.5	.8	23.6	2.7	20.6
W	2.0	7.6	6.7	.8	.0	.0		17.2	10.6		22.1	27.2	7.9	5.6	5.8	23.2	7.1	25.3
NW	1.2	8.6	16.0	7.9	.7	.0		34.4	16.1		34.6	24.8	46.8	34.0	46.3	20.7	44.5	22.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		.5	.5	2.4	3.7	4.0	4.5	1.1	2.8
TOT OBS	456	1265	1548	638	69	0	3976		13.4		765	381	449	161	506	575	463	676
TOT PCT	11.5	31.8	38.9	16.0	1.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WMO DTR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				06	12	18		
		03	09	15	21									
N	2.2	7.7	10.3	2.6	.1		22.9	18.0	18.1	32.7	22.7	22.7		
NE	1.1	1.1	.3	.1	.0		2.6	9.1	2.0	2.5	3.4	2.4		
E	.8	.5	.1	.0	.0		1.4	7.0	1.2	.7	1.7	1.5		
SE	1.4	.7	.1	.0	.0		2.2	6.3	1.6	1.9	2.1	2.9		
S	2.6	1.9	.3	.0	.0		4.8	7.3	5.2	1.7	5.2	5.6		
SW	4.8	6.3	1.1	.0	.0		12.2	8.9	16.2	1.6	12.9	13.3		
W	5.1	9.0	3.0	.1	.0		17.2	10.6	23.8	7.3	15.1	17.9		
NW	4.1	14.0	13.6	2.6	.1		34.4	16.1	31.3	46.7	32.7	31.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.3						2.3	.0	.5	2.8	4.3	2.1		
TOT OBS	975	1634	1141	220	6	3976		13.4	1146	610	1081	1139		
TOT PCT	24.5	41.1	28.7	5.5	.2		100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1935-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.5	6.1	29.1	46.7	16.0	1.7	.0	14.5	100.0	1146
06009	2.8	2.8	26.1	45.4	20.7	2.3	.0	15.6	100.0	610
12015	4.3	12.9	37.6	28.8	15.2	1.4	.0	11.8	100.0	1081
18021	2.1	12.0	32.2	37.3	14.5	1.8	.0	12.7	100.0	1139
TOT	93	363	1265	1548	638	69	0	13.4		3976
PCT	2.3	9.1	31.8	38.9	16.0	1.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	14.2	2.7	6.6	12.2		4.4
NE	.9	.3	.6	1.1		4.8
E	.3	.0	.0	.7		5.8
SE	.2	.3	.1	1.9		6.5
S	.4	.2	.4	1.1		5.9
SW	.3	.2	.3	.3		4.8
W	2.0	.7	1.4	3.0		5.1
NW	21.5	3.6	6.5	14.6		3.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.1	1.2		3.7
TOT OBS	628	125	249	558	1560	4.3
TOT PCT	40.3	8.0	16.0	35.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.4	1.2	4.7	6.6	2.3	.3	.0	.1	.5	18.4	
NE	.1	.0	.0	.3	.4	.3	.0	.1	.0	.1	1.5	
E	.3	.0	.0	.1	.0	.1	.0	.0	.1	.0	.3	
SE	.8	.0	.1	.3	.2	.1	.0	.1	.0	.0	.6	
S	.3	.0	.1	.2	.8	.2	.0	.0	.0	.0	.6	
SW	.0	.0	.1	.2	.1	.1	.0	.1	.1	.0	.6	
W	1.0	.0	.3	.8	.9	.6	.2	.1	.0	.0	3.2	
NW	2.9	.2	1.6	3.9	6.3	3.0	.9	.0	.1	.2	27.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.2	.4	.2	.0	.0	.0	.0	.0	.5	
TOT OBS	108	9	57	170	241	104	22	6	7	13	823	1560
TOT PCT	6.9	.6	3.7	10.9	15.4	6.7	1.4	.4	.4	.8	52.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	= OR >10	= OR >5	= OR >2	= OR >1
= OR >4900	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5300	2.0	2.9	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	6.7	9.4	9.6	9.6	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
= OR >1000	14.9	23.5	24.7	24.9	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
= OR >600	20.9	33.3	35.3	35.6	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0
= OR >300	21.9	35.5	38.5	39.1	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8
= OR >150	21.9	35.8	38.9	39.6	40.1	40.3	40.3	40.3	40.3	40.3	40.3	40.3
= OR >0	22.0	36.3	39.9	41.2	43.3	45.2	46.9	47.3	47.3	47.3	47.3	47.3
TOTAL	346	570	628	648	681	711	738	743	743	743	743	743

TOTAL NUMBER OF OBS: 1572

PCT FREQ NM <5/8: 52.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
27.4	7.6	7.7	4.7	3.4	3.0	4.3	7.7	28.3	1691

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.1	
	NO PCP	.6	.1	.1	.3	.2	.2	.4	1.4	.0	.3	3.4	
	TOT %	.6	.1	.1	.3	.2	.2	.4	1.4	.0	.3	3.4	
1/2<1	PCP	.1	.0	.0	*	*	*	.0	*	.0	.0	.1	
	NO PCP	.5	.1	*	.1	.1	.1	.3	1.1	.0	*	2.5	
	TOT %	.5	.1	*	.2	.1	.1	.3	1.1	.0	*	2.6	
1<2	PCP	.1	.0	.0	*	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	.3	.1	.1	.1	.2	.5	.8	.6	.0	.3	3.1	
	TOT %	.5	.1	.1	.2	.2	.5	.8	.7	.0	.3	3.3	
2<5	PCP	.2	.0	.0	*	*	.0	*	.1	.0	.0	.4	
	NO PCP	1.0	.2	.1	.1	.3	1.6	1.5	2.0	.0	.2	6.4	
	TOT %	1.2	.2	.1	.1	.3	1.6	1.5	2.1	.0	.2	7.2	
5<10	PCP	.2	*	.0	.0	*	*	*	.3	.0	.0	.6	
	NO PCP	5.7	.6	.4	.8	2.2	8.0	9.2	9.0	.0	.6	36.6	
	TOT %	5.9	.7	.4	.8	2.2	8.1	9.3	9.2	.0	.6	37.1	
10+	PCP	*	.0	*	*	*	.0	*	.1	.0	.0	.2	
	NO PCP	19.9	1.6	.5	.8	2.0	2.6	5.6	18.4	.0	.8	46.1	
	TOT %	19.9	1.6	.6	.8	2.0	2.6	5.6	18.5	.0	.8	46.3	
TOT OBS													3645
TOT PCT		22.6	2.7	1.2	2.3	5.1	13.1	17.9	33.0	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.1	*	.1	.1	.2	.0	.4	1.1	
	4-10	.2	.0	*	.2	.1	.1	.3	.7	.0		1.6	
	11-21	.2	.0	*	*	*	*	.1	.4	.0		.8	
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0		.3	
	TOT %	.6	.1	.1	.3	.2	.2	.4	1.4	.0	.4	3.8	
1/2<1	0-3	*	.0	.0	.1	*	.1	*	.1	.0	.1	.4	
	4-10	.2	.1	.1	.1	.1	.1	.2	.5	.0		1.3	
	11-21	.2	*	.0	.1	*	.1	.1	.3	.0		.8	
	22+	.1	*	.0	.0	.0	.0	.0	.2	.0		.4	
	TOT %	.6	.1	.1	.2	.2	.2	.3	1.1	.0	.1	2.8	
1<2	0-3	.1	*	*	*	.1	.1	.1	.1	.0	.3	.8	
	4-10	.1	*	.1	.1	.1	.3	.4	.2	.0		1.4	
	11-21	.3	.0	*	*	.1	.2	.4	.3	.0		1.4	
	22+	.1	.0	.0	.0	*	.0	.1	.1	.0		.3	
	TOT %	.6	.1	.2	.2	.2	.6	1.0	.8	.0	.3	3.9	
2<5	0-3	.2	.0	.0	*	.1	.2	.2	.2	.0	.2	1.2	
	4-10	.3	*	*	.1	.2	.6	.7	.8	.0		2.7	
	11-21	.3	.1	*	*	.1	.6	.5	1.0	.0		2.7	
	22+	.4	*	.0	.0	.0	*	*	.4	.0		.9	
	TOT %	1.3	.2	.1	.1	.3	1.5	1.4	2.4	.0	.2	7.3	
5<10	0-3	.2	.1	.1	.3	.5	.8	.6	.3	.0	.6	3.5	
	4-10	1.0	.3	.3	.4	1.0	3.8	3.6	2.0	.0		12.4	
	11-21	2.4	.1	*	*	.6	2.9	4.1	6.5	.0		14.7	
	22+	2.3	.1	*	.0	.1	.2	.6	2.8	.0		6.1	
	TOT %	5.9	.7	.4	.7	2.1	7.7	8.9	9.6	.0	.6	36.7	
10+	0-3	.2	.5	.1	.1	.9	.9	.9	.4	.0	.7	4.6	
	4-10	2.3	.6	.4	.5	.7	1.2	2.5	4.1	.0		12.4	
	11-21	6.3	.4	*	.1	.3	.4	1.7	9.3	.0		18.3	
	22+	4.8	.1	.0	.0	*	*	.2	4.7	.0		9.8	
	TOT %	13.6	1.3	.5	.7	1.9	2.5	5.4	18.4	.0	.7	45.3	
TOT OBS													3826
TOT PCT		22.7	2.6	1.3	2.2	4.9	12.7	17.3	33.8	.0	2.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

AREA 0036 POINT ARENA
38.4N 123.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	3.0	1.0	3.5	11.8	15.1	6.3	1.3	1.0	.5	1.3	44.7	55.3	398
06009	6.8	.2	1.7	7.0	13.8	6.1	1.2	.2	.7	.7	38.6	61.4	412
12015	8.2	.5	4.1	13.6	14.7	4.9	1.8	.0	.3	.3	48.3	51.7	389
18021	9.7	.5	5.4	10.5	17.0	9.0	1.2	.2	.2	1.0	54.7	45.3	411
TOT	112	9	59	172	244	106	22	6	7	13	750	860	1610
PCT	7.0	.6	3.7	10.7	15.2	6.6	1.4	.4	.4	.8	46.6	53.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.3	1.9	3.6	7.3	42.4	42.6	1125
06009	4.7	2.9	1.9	5.7	23.6	61.2	593
12015	5.1	3.4	5.9	8.8	36.0	40.8	1049
18021	3.9	3.2	3.6	7.3	37.7	44.2	1116
TOT	151	110	153	290	1416	1763	3883
PCT	3.9	2.8	3.9	7.5	36.5	45.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50yd	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	3.1	8.0	23.6	23.6	52.8	386
06009	6.9	9.6	19.8	21.5	58.8	405
12015	8.4	13.6	30.4	20.7	48.8	381
18021	9.5	16.5	24.3	28.0	43.8	400
TOT	110	188	400	369	803	1572
PCT	7.0	12.0	25.4	23.5	51.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
85/89	.0	.1	.0	.0	.0	.0	.0	.0	4	.1
80/84	.0	.1	.3	.2	.1	.1	.0	.0	24	.8
75/79	.0	.2	.5	.6	.2	.3	.0	.1	59	1.9
70/74	.0	.0	.3	1.6	1.6	.6	.3	.3	146	4.6
65/69	.0	.0	.1	1.1	2.3	4.3	3.8	1.8	418	13.3
60/64	.0	.0	.1	.2	2.6	9.1	15.5	8.0	1117	35.5
55/59	.0	.0	.0	.1	.1	2.5	18.2	15.2	1195	36.1
50/54	.0	.0	.0	.0	.0	.1	1.8	5.6	236	7.5
45/49	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	1	12	41	119	218	535	1244	973	3143	100.0
PCT	.0	.4	1.3	3.8	6.9	17.0	39.6	31.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.2	.0	.3	.0	.0
.1	.0	.0	.1	.2	.4	.6	.5	.0	.1
.3	.3	.0	.1	.8	1.2	1.2	.5	.0	.1
1.6	.5	.1	.4	1.0	3.3	3.8	2.4	.0	.3
8.9	1.0	.6	.8	1.6	4.1	7.2	10.5	.0	.9
8.0	.8	.7	.7	1.5	4.8	6.1	12.9	.0	.6
1.4	.1	.1	.2	.2	.7	1.1	3.5	.0	.2
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
20.4	2.8	1.4	2.3	5.4	14.9	20.0	30.7	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	80	73	61	54	52	50	62.2	1151
06009	75	68	64	59	53	50	48	58.8	614
12015	89	72	65	58	53	50	48	58.7	1095
18021	90	79	73	61	54	51	50	62.0	1151
TOT	90	78	71	60	54	51	48	60.7	4011

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.4	9.3	23.3	36.6	21.4	80	969
06009	.0	.0	1.0	7.9	46.4	44.7	89	418
12015	.0	2.2	3.5	8.8	43.1	42.4	88	867
18021	.1	7.0	10.7	22.2	35.9	24.0	81	932
TOT	1	175	224	562	1258	986	83	3186

AUGUST

 PERIOD: (PRIMARY) 1955-1973
 (OVER-ALL) 1957-1973

 AREA 0036 POINT ARENA
 38.4N 123.8W

TABLE 17

 PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	% FOG	% NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	6	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	16	.0	.5
11/13	.0	.0	.0	.3	.4	.1	.6	.2	.0	.0	.0	51	.0	1.6
9/10	.0	.0	.3	.8	.4	.4	.4	.3	.0	.0	.0	79	.2	2.4
7/8	.0	.1	.9	1.4	.8	.6	.1	.1	.0	.0	.0	124	.2	3.9
6	.0	.1	1.0	.7	.5	.4	.2	.0	.0	.0	.0	89	.2	2.7
5	.0	.5	2.0	1.3	1.0	.3	.1	.0	.0	.0	.0	180	.4	4.8
4	.0	1.4	1.9	1.9	1.3	.4	.1	.0	.0	.0	.0	214	.8	6.2
3	.1	1.4	2.2	1.3	.8	.5	.1	.0	.0	.0	.0	195	.9	5.5
2	.2	2.1	2.7	3.5	1.6	.4	.0	.1	.0	.0	.0	328	1.6	9.1
1	.2	1.8	2.3	3.8	.8	.3	.0	.0	.0	.0	.0	285	1.2	8.1
0	.4	2.3	3.6	5.1	.8	.2	.0	.0	.0	.0	.0	384	1.8	10.6
-1	.3	1.2	2.6	2.2	.9	.1	.0	.0	.0	.0	.0	223	.9	6.3
-2	.2	1.6	3.4	1.9	.6	.0	.0	.0	.0	.0	.0	237	1.0	6.7
-3	.2	1.0	2.6	1.4	.5	.0	.0	.0	.0	.0	.0	179	.7	5.1
-4	.2	.7	2.3	1.0	.2	.0	.0	.0	.0	.0	.0	135	.4	4.0
-5	.1	.4	1.5	1.0	.1	.0	.0	.0	.0	.0	.0	96	.4	2.8
-6	.1	.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	72	.4	2.0
-7/-8	.1	1.7	1.8	.4	.0	.0	.0	.0	.0	.0	.0	122	.1	3.8
-9/-10	.0	.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	54	.1	1.7
-11/-13	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	26	.1	.7
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
TOTAL	69	573	1025	880	323	117	57	28	7	2	1	3082	11.3	273.6
PCT	2.2	18.6	33.3	28.6	10.5	3.8	1.8	.9	.2	.1	.0	100.0		

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.5	.0	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.4
1-2	.1	2.1	2.3	.0	.0	.0	4.5	.0	.6	.1	.0	.0	.0	.7
3-6	.0	1.1	4.6	.8	.0	.0	6.2	.0	.3	.2	.0	.0	.0	.4
5-6	.0	.0	4.3	3.2	.0	.0	7.5	.0	.0	.3	.1	.0	.0	.4
7	.0	.3	3.1	3.9	.2	.0	7.5	.0	.4	.2	.0	.0	.0	.6
8-9	.0	.2	1.2	2.2	.3	.0	4.0	.0	.2	.1	.1	.0	.0	.3
10-11	.0	.0	.3	1.8	.4	.0	2.5	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.2	1.0	.3	.0	1.7	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.1	.1	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.1	16.2	12.7	1.9	.0	35.3	.0	1.9	1.0	.2	.0	.0	3.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.2	.3	.0	.0	.0	.0	.8
1-2	.1	.4	.0	.0	.0	.0	.6	.0	1.0	.3	.0	.0	.0	1.3
3-6	.0	.3	.1	.0	.0	.0	.4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.1	.0	.0	.0	1.1	.3	1.8	.5	.0	.0	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

AUGUST
TABLE 18 (CONT)AREA 0036 POINT ARENA
38.64 123.04

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.1
1-2	.1	.0	.3	.0	.0	.0	1.4	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.8	.0	.0	.0	2.4	.1	.1	.0	.0	.0	.0	.7

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.0	.0	.0	.0	.8	.4	1.0	.1	.0	.0	.0	1.5	
1-2	.2	1.4	.7	.0	.0	.0	2.2	.3	3.3	2.8	.0	.0	.0	6.6	
3-4	.2	1.2	1.3	.0	.0	.0	2.7	.1	3.0	9.2	2.4	.0	.0	14.7	
5-6	.0	.1	.5	.0	.0	.0	.7	.0	.7	5.9	2.6	.0	.0	9.2	
7	.0	.1	.3	.0	.0	.0	.4	.0	.9	2.3	3.0	.0	.0	6.4	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.3	1.2	2.3	.2	.0	4.0	
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.4	1.2	.0	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.2	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.7	2.9	.0	.0	.0	7.1	.9	9.3	22.6	12.3	.4	.0	45.6	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	3.7	.1	.0	.0	.0	7.2	
1-2	1.1	10.1	6.3	.0	.0	.0	17.7	
3-4	.2	6.5	15.7	3.0	.0	.0	25.4	
5-6	.0	.9	11.3	5.9	.0	.0	18.1	
7	.0	1.7	6.1	6.9	.2	.0	15.0	
8-9	.0	.6	2.6	4.5	.7	.0	8.5	
10-11	.0	.1	.9	3.0	.4	.0	4.4	
12	.0	.0	.2	1.5	.3	.0	2.2	
13-16	.0	.0	.4	.5	.5	.0	1.4	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	23.7	44.0	25.2	2.4	.0	100.0	802

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	1.0	8.0	13.9	6.3	4.4	2.6	.8	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	367	4
6-7	.0	1.3	5.6	7.2	6.0	4.6	3.2	1.1	1.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	433	6
8-9	.0	.2	1.3	3.7	3.7	3.7	1.7	1.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	244	7
10-11	.0	.3	.5	1.2	1.3	1.1	.9	1.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	105	8
12-13	.0	.0	.1	.5	.3	.3	.3	.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	39	9
>13	.0	.0	.0	.2	.3	.2	.5	.1	.5	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	32	11
INDET	1.8	.5	.7	.3	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	3
TOTAL	42	156	334	292	248	190	115	58	60	6	2	1	1	0	0	0	0	0	0	1303	6
PCT	2.8	10.4	22.2	19.4	16.5	12.6	7.6	3.9	4.0	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

AREA 0036 POINT ARENA
38.5M 124.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.3	.9	.0	.0	.0	.0	1.5	.1	.0	10.1	.5	7.1	.0	80.8
NE	1.2	.6	.6	.0	.0	.0	.0	2.5	.0	.0	7.1	.0	13.0	.0	77.4
E	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	20.0	2.4	20.0	.0	55.8
SE	1.2	.0	1.0	.0	.0	.0	.0	2.1	1.9	.0	25.2	.0	9.8	.0	61.0
S	2.7	.0	1.7	.0	.0	.0	.0	4.4	1.1	.0	16.5	.6	14.5	.0	62.8
SW	.2	.3	.9	.0	.0	.0	.0	1.4	.6	.0	9.9	.3	23.1	.0	64.6
W	.3	.0	.9	.0	.0	.0	.0	1.2	.0	.2	14.6	.4	16.6	.0	67.0
NW	.3	.0	.9	.0	.0	.0	.0	1.2	.1	.2	15.2	.3	8.3	.0	74.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.8	.0	.0	.0	.0	.8	.0	.0	27.1	1.7	14.4	.0	55.9
TOT PCT	.5	.1	.9	.0	.0	.0	.0	1.6	.3	.1	14.0	.4	11.9	.0	71.7
TOT OBS:	2902														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.4	.1	.8	.0	.0	.0	.0	1.3	.3	.0	13.1	.4	13.1	.0	71.8
0600	1.1	.2	1.8	.0	.0	.0	.0	3.0	.2	.2	11.0	1.1	9.6	.0	81.0
1200	.1	.1	1.4	.0	.0	.0	.0	1.6	.3	.3	17.5	.3	11.7	.0	68.2
1800	.5	.1	.2	.0	.0	.0	.0	.9	.2	.0	14.1	.2	16.4	.0	68.1
TOT PCT	.5	.1	1.0	.0	.0	.0	.0	1.6	.3	.1	14.2	.4	11.8	.0	71.6
TOT OBS:	2949														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	6.3	11.3	6.1	.7	.0		25.2	16.3		26.1	14.4	36.2	37.9	30.7	16.8	28.8	14.1
NE	.4	1.0	.9	.5	.0	.0		2.6	12.6		1.8	1.9	4.2	1.5	3.4	2.1	2.3	3.2
E	.3	.6	.2	.0	.0	.0		1.3	6.3		.5	.3	1.9	.6	1.3	2.4	1.8	1.3
SE	1.0	1.9	.7	.0	.0	.0		3.7	7.1		2.9	2.6	2.8	3.3	4.5	3.3	5.3	4.4
S	1.1	3.1	1.4	.0	.0	.0		5.6	8.1		7.2	6.2	3.3	1.8	4.2	6.0	7.0	6.7
SW	2.1	6.5	2.0	.0	.0	.0		10.6	7.0		12.9	19.5	3.1	3.8	3.4	14.8	4.0	20.3
W	3.5	7.4	2.8	.3	.0	.0		14.0	7.6		11.8	26.7	7.2	6.2	7.1	19.8	8.7	23.1
NW	1.8	10.9	14.2	9.1	.4	.0		32.4	13.9		32.4	26.9	35.9	43.2	39.8	29.3	34.7	23.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		2.4	1.5	5.5	1.8	5.5	5.5	7.6	4.1
TOT OBS	311	1223	1085	390	37	1	3245		11.6		547	329	439	169	453	434	410	464
TOT PCT	15.7	37.7	33.4	12.0	1.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	12	18
N	3.4	10.1	9.5	2.1	.1		25.2	16.3	22.9	36.6	23.9	21.0
NE	.8	1.0	.7	.1	.0		2.6	12.6	1.9	3.4	2.8	2.8
E	.6	.4	.1	.0	.0		1.3	6.3	.4	1.5	1.8	1.5
SE	1.9	1.7	.0	.0	.0		3.7	7.1	2.8	2.9	3.9	4.8
S	2.6	2.6	.3	.0	.0		5.6	8.1	6.8	2.9	5.1	5.8
SW	3.5	4.9	.2	.0	.0		10.6	7.0	15.4	3.3	9.0	12.6
W	7.3	5.7	.9	.0	.0		14.0	7.6	17.4	6.9	13.3	16.3
NW	6.4	15.3	8.9	1.8	.1		32.4	13.9	30.3	38.0	34.7	28.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	2.1	4.4	3.5	5.7
TOT OBS	1080	1352	671	136	6	3245		11.6	876	608	687	874
TOT PCT	33.3	41.7	20.7	4.2	.2		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1957-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.1	10.3	39.7	34.6	12.0	1.4	.0	11.9	100.0	876
0600	4.4	4.8	28.9	41.6	18.3	2.0	.0	14.1	100.0	608
1200	5.5	14.5	38.6	29.9	10.7	.7	.1	10.6	100.0	887
1800	5.7	13.6	40.8	30.0	9.0	.8	.0	10.3	100.0	874
TOT	144	367	1223	1083	390	37	1	11.6		3245
PCT	4.4	11.3	37.7	33.4	12.0	1.1	8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	17.9	3.3	4.6	6.7		3.1
NE	1.2	.2	.3	1.2		4.4
E	.4	.1	.1	.9		5.6
SE	.4	.2	.7	2.8		6.6
S	.9	.3	.7	2.1		3.7
SW	1.6	.4	.8	1.2		4.3
W	3.2	1.0	1.3	3.1		4.4
NW	19.8	4.0	5.2	9.3		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.1	.6	2.0		4.8
TOT OBS	666	135	199	416	1416	3.7
TOT PCT	47.0	9.5	14.1	29.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
1.2	.2	.7	3.1	2.8	1.4	.7	.1	.1	.1	22.4	
.2	.0	.2	.4	.4	.2	.0	.1	.0	.0	1.5	
.1	.0	.0	.5	.3	.9	.1	.0	.0	.0	.5	
.7	.0	.1	.7	1.1	.3	.3	.1	.0	.0	.8	
.4	.1	.1	.8	.6	.4	.2	.0	.0	.1	1.4	
.3	.0	.1	.4	.4	.5	.0	.0	.0	.0	2.2	
.7	.0	.6	.9	1.0	.6	.1	.0	.0	.0	4.9	
2.9	.3	.6	2.7	3.2	2.6	.3	.0	.0	.1	23.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.1	.0	.3	.4	.4	.4	.1	.0	.0	.0	1.7	
107	8	36	139	144	92	26	3	1	4	886	1416
7.6	.6	2.5	9.8	10.2	6.5	1.8	.2	.1	.3	60.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.1	.3	.4	.4	.4	.4	.4	.4
>5000	.3	.6	.6	.6	.6	.6	.6	.6
>3500	1.7	2.3	2.5	2.5	2.5	2.5	2.5	2.5
>2000	6.1	8.7	9.0	9.0	9.0	9.0	9.0	9.0
>1000	12.5	18.1	19.3	19.4	19.4	19.4	19.4	19.4
>600	16.8	26.8	28.8	29.1	29.1	29.1	29.1	29.1
>300	17.4	28.9	31.3	31.7	31.8	31.8	31.8	31.8
>150	17.5	29.2	31.9	32.3	32.4	32.4	32.4	32.4
>0	17.6	29.8	32.3	34.4	35.2	37.1	38.9	39.7
TOTAL	232	426	476	492	503	531	557	568

TOTAL NUMBER OF OBS: 1431

PCT FREQ NM <5/8: 60.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS	
34.6	8.1	7.3	5.3	3.9	2.0	4.8	5.5	22.1	6.4	1917

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PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	NO PCP	.9	.0	.1	.3	.3	.3	.7	2.3	.0	.6	5.7	
	TOT S	.9	.0	.1	.3	.3	.4	.8	2.3	.0	.6	5.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.4	.1	.0	.1	.3	.4	.6	.7	.0	.0	2.5	
	TOT S	.4	.1	.0	.1	.3	.4	.7	.7	.0	.0	2.6	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.1	.1	.1	.4	1.2	.6	.6	.0	.1	3.5	
	TOT S	.3	.1	.1	.1	.5	1.2	.6	.7	.0	.2	3.6	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	NO PCP	1.3	.3	.1	.2	.5	1.5	1.7	1.8	.0	.3	7.7	
	TOT S	1.3	.3	.1	.3	.5	1.5	1.7	1.8	.0	.3	7.9	
5<10	PCP	.3	.1	.0	.1	.1	.0	.0	.2	.0	.0	.7	
	NO PCP	7.3	.6	.7	1.0	2.4	5.5	5.0	8.0	.0	.8	31.3	
	TOT S	7.6	.7	.7	1.0	2.4	5.5	5.0	8.2	.0	.8	31.9	
10+	PCP	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.2	
	NO PCP	14.3	1.6	.4	1.7	1.9	2.5	6.2	16.9	.0	2.1	47.8	
	TOT S	14.3	1.6	.4	1.7	2.0	2.6	6.2	17.0	.0	2.1	48.0	
TOT OBS													2896
TOT PCT		25.0	2.8	1.4	3.6	6.0	11.5	15.0	30.6	.0	4.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.2	.1	.1	.2	.2	.0	.7	1.5	
	4-10	.3	.0	.1	.3	.1	.3	.3	1.2	.0	.0	3.0	
	11-21	.3	.0	.0	.1	.1	.0	.1	.9	.0	.0	1.6	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT S	.9	.0	.1	.5	.3	.5	.8	2.4	.0	.7	6.3	
1/2<1	0-3	.1	.0	.0	.0	.1	.0	.2	.0	.0	.0	.3	
	4-10	.1	.1	.0	.0	.1	.3	.4	.3	.0	.0	1.4	
	11-21	.1	.0	.0	.0	.0	.0	.2	.3	.0	.0	.7	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.4	.1	.0	.1	.3	.4	.7	.7	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.1	.1	.1	.2	.0	.2	.8	
	4-10	.1	.1	.1	.1	.2	.9	.4	.2	.0	.0	2.0	
	11-21	.2	.0	.0	.0	.2	.2	.2	.3	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT S	.3	.1	.1	.1	.4	1.2	.7	.8	.0	.2	4.0	
2<5	0-3	.1	.0	.0	.1	.1	.2	.3	.3	.0	.4	1.7	
	4-10	.4	.1	.1	.2	.2	.9	.8	.9	.0	.0	3.6	
	11-21	.8	.1	.0	.0	.1	.3	.3	.9	.0	.0	2.6	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT S	1.5	.3	.1	.3	.3	1.4	1.7	2.2	.0	.4	8.3	
5<10	0-3	.2	.1	.3	.3	.4	.9	1.3	.4	.0	.9	4.8	
	4-10	1.7	.1	.3	.5	1.4	3.0	2.6	2.3	.0	.0	11.9	
	11-21	3.6	.2	.1	.2	.3	1.2	1.0	3.9	.0	.0	10.8	
	22+	2.0	.2	.0	.0	.0	.0	.1	1.4	.0	.0	3.8	
	TOT S	7.5	.6	.7	1.0	2.3	5.2	4.8	8.3	.0	.9	31.4	
10+	0-3	.5	.2	.1	.4	.4	.8	1.4	.6	.0	2.1	6.4	
	4-10	3.1	.5	.2	.8	1.0	1.3	3.3	5.4	.0	.0	15.3	
	11-21	6.3	.5	.1	.4	.5	.3	1.1	7.6	.0	.0	16.9	
	22+	4.5	.3	.0	.0	.0	.0	.2	3.3	.0	.0	8.3	
	TOT S	14.5	1.5	.4	1.6	1.9	2.4	5.8	17.1	.0	2.1	47.4	
TOT OBS													3074
TOT PCT		25.2	2.7	1.3	3.7	5.7	11.1	14.3	31.4	.0	4.4	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	5.1	.3	2.7	9.9	9.9	5.1	2.7	.3	.0	.8	36.5	63.5	375
06009	7.0	.5	2.5	5.8	8.8	6.0	1.3	.0	.3	.5	32.5	67.5	400
12015	11.1	1.4	1.7	10.2	10.5	6.8	1.4	.3	.0	.0	43.5	56.5	392
18021	6.1	.3	3.5	12.9	11.4	7.6	2.0	.3	.0	.0	44.2	55.8	342
TOT	107	9	38	140	148	93	27	3	1	5	571	898	1469
PCT	7.3	.8	2.6	9.5	10.1	6.3	1.8	.2	.1	.3	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.5	2.3	5.0	9.6	36.4	41.4	844
06009	5.2	1.3	1.7	5.0	23.6	63.2	598
12015	8.6	4.7	5.0	8.6	30.2	43.0	859
18021	5.6	2.2	4.0	8.5	33.2	46.5	825
TOT	197	85	128	253	981	1480	3126
PCT	6.3	2.7	4.1	8.2	31.4	47.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 9+	TOTAL OBS
00003	4.9	8.5	20.9	18.1	61.0	364
06009	7.1	10.2	19.1	15.3	63.6	393
12015	11.4	14.7	27.6	18.5	54.0	341
18021	6.0	10.2	25.2	21.0	53.8	333
TOT	105	155	329	259	843	1431
PCT	7.3	10.8	23.0	18.1	58.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.1	.8	.0	.0	.0	.0	.0	.0	3	.1
85/89	.0	.1	.1	.1	.0	.0	.0	.0	7	.3
80/84	.0	.1	.5	.1	.1	.8	.0	.0	19	.8
75/79	.0	.0	.2	.6	.1	.5	.1	.2	38	1.6
70/74	.8	.0	.8	.7	1.4	1.3	.3	.6	104	4.4
65/69	.0	.8	.8	.8	1.4	3.6	4.0	2.3	332	14.0
60/64	.0	.8	.0	.2	1.6	8.4	17.3	7.8	842	35.5
55/59	.0	.0	.0	.8	.0	2.5	19.3	14.9	873	36.8
50/54	.0	.0	.0	.0	.0	.5	2.3	3.5	149	6.3
45/49	.0	.0	.0	.0	.0	.0	.8	.1	4	.2
TOTAL	3	7	20	54	109	446	1034	698	2371	100.0
PCT	.1	.3	.8	2.3	4.6	18.8	43.6	29.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.8	.1	.0	.8	.0	.0
.0	.0	.0	.8	.8	.2	.0	.0	.0	.0
.0	.0	.0	.1	.1	.5	.1	.0	.0	.8
.1	.8	.0	.1	.2	.5	.5	.1	.0	.8
.3	.1	.8	.2	.4	1.5	.8	.5	.0	.4
2.5	.3	.1	.4	1.5	2.9	3.3	2.3	.0	.7
9.6	1.0	.7	1.3	1.9	3.9	9.9	10.0	.0	1.2
8.9	1.3	.5	1.3	1.8	3.3	4.8	13.3	.0	1.7
1.2	.1	.1	.3	.3	.9	2.5	.0	.5	.5
.0	.0	.0	.8	.0	.0	.8	.0	.0	.1
22.5	2.8	1.5	3.8	6.2	13.2	18.4	28.8	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	93	86	74	61	55	52	50	62.4	881
06009	79	69	65	59	54	52	50	59.2	622
12015	80	70	65	58	53	50	47	58.5	902
18021	90	79	72	61	55	52	46	62.2	877
TOT	93	79	70	60	54	51	46	60.7	3282

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MDUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.3	6.4	7.2	22.2	39.2	24.7	82	671
06009	.2	.5	1.4	13.9	46.2	37.8	87	431
12015	.0	.2	1.2	12.5	48.4	37.7	88	642
18021	.0	5.4	7.2	24.3	41.6	21.6	81	654
TOT	3	81	109	446	1045	712	84	2398

SEPTEMBER

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1857-1973

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT FOG	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	4	.0	.2
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.2	.1	.1	.2	.0	.0	19	.0	.7
11/13	.0	.0	.0	.0	.2	.2	.2	.3	.1	.3	.0	.0	32	.1	1.2
9/10	.0	.0	.0	.0	.4	.3	.2	.2	.2	.0	.0	.0	35	.2	1.2
7/8	.0	.0	.0	.8	1.0	.7	.5	.0	.2	.0	.0	.0	83	.3	3.1
6	.0	.0	.1	1.0	.8	.5	.1	.1	.1	.0	.0	.0	67	.1	2.6
5	.0	.0	.4	1.7	1.3	1.0	.1	.1	.0	.0	.0	.0	117	.7	4.0
4	.0	.0	.8	2.3	1.4	1.1	.2	.0	.0	.0	.0	.0	149	.9	5.1
3	.0	.0	1.0	2.4	1.7	1.1	.2	.1	.0	.0	.0	.0	159	1.0	5.4
2	.0	.2	2.1	3.9	2.6	1.2	.4	.1	.0	.0	.0	.0	239	1.9	8.6
1	.0	.1	1.7	3.6	2.6	1.1	.5	.0	.0	.0	.0	.0	237	2.0	7.6
0	.0	.4	2.5	3.9	4.4	1.1	.2	.0	.0	.0	.0	.0	309	1.5	11.0
-1	.0	.2	1.4	3.3	3.1	.8	.0	.0	.0	.0	.0	.0	218	1.2	7.6
-2	.0	.3	2.1	3.2	3.3	.6	.0	.0	.0	.0	.0	.0	235	1.8	7.7
-3	.0	.2	.8	2.7	1.8	.8	.0	.0	.0	.0	.0	.0	161	.8	5.6
-4	.0	.1	1.2	2.7	.8	.3	.0	.0	.0	.0	.0	.0	128	.8	4.4
-5	.0	.1	.6	1.4	.9	.2	.0	.0	.0	.0	.0	.0	80	.5	2.7
-6	.0	.1	1.0	.8	.7	.1	.0	.0	.0	.0	.0	.0	66	.4	2.3
-7/-8	.0	.2	.4	1.2	.6	.0	.0	.0	.0	.0	.0	.0	59	.4	2.0
-9/-10	.0	.0	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	32	.1	1.2
-11/-13	.0	.0	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	22	.2	.7
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	1	47	424	902	687	281	75	27	18	11	4	2	2479	369	2110
PCT	.0	1.9	17.1	36.4	27.7	11.3	3.0	1.1	.7	.4	.2	.1	100.0	14.9	85.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.0	.0	.0	.0	1.9	.0	.1	.0	.0	.0	.0	.1
1-2	.3	2.3	2.2	.0	.0	.0	5.0	.1	.3	.0	.0	.0	.0	.5
3-4	.0	1.8	6.7	1.0	.0	.0	9.5	.1	.2	.1	.0	.0	.0	.5
5-6	.0	.5	4.7	1.4	.0	.0	6.6	.0	.1	.4	.2	.0	.0	.8
7	.0	.5	2.9	2.3	.0	.0	5.6	.0	.0	.3	.2	.0	.0	.6
8-9	.0	.1	.9	1.9	.5	.0	3.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	1.1	.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.4	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.2	17.7	9.0	.8	.0	39.2	.3	.8	.9	.6	.0	.0	2.6

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.4
1-2	.0	.4	.1	.0	.0	.0	.5	.1	.9	.3	.0	.0	.0	1.3
3-4	.0	.1	.3	.0	.0	.0	.4	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.4	.0	.0	.0	1.0	.3	1.6	.6	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER
TABLE 18 (CONT)AREA 0036 POINT ARENA
38.3N 124.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.3	.5	.0	.0	.0	.0	.7
1-2	.0	.9	.0	.0	.0	.0	.9	.1	.6	.2	.0	.0	.0	.9
3-4	.2	.2	.1	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.3	.1	.0	.0	.0	.5
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	.5	.0	.0	.0	2.4	.4	1.7	.4	.0	.0	.0	2.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.2	5.7	.1	.0	.0	.0	6.1	
1-2	.1	1.8	.7	.0	.0	.0	2.7	.5	9.1	4.9	.0	.0	.0	11.5	
3-4	.0	.8	.6	.0	.0	.0	1.4	.0	2.9	3.9	1.2	.0	.0	10.0	
5-6	.1	.2	.4	.0	.0	.0	.7	.0	.4	3.9	1.3	.0	.0	5.6	
7	.0	.1	.2	.1	.0	.0	.4	.0	.3	2.4	.9	.0	.0	3.6	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.6	1.0	.0	.0	1.8	
10-11	.0	.1	.0	.1	.0	.0	.3	.0	.0	.5	1.7	.0	.0	2.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.2	1.9	.2	.0	.0	7.2	.7	15.4	18.5	6.6	.2	.0	41.4	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	10.0	.1	.0	.0	.0	18.5	
1-2	1.8	12.5	8.3	.0	.0	.0	23.7	
3-4	.6	6.6	13.8	2.3	.0	.0	23.2	
5-6	.1	1.7	9.6	3.0	.0	.0	14.4	
7	.0	.8	5.9	3.5	.0	.0	10.3	
8-9	.0	.3	1.8	3.0	.6	.0	5.6	
10-11	.0	.1	.7	3.0	.1	.0	3.9	
12	.0	.0	.4	.6	.1	.0	1.1	
13-16	.0	.0	.0	1.0	.1	.0	1.1	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	33.1	40.7	16.3	1.0	.0	100.0	710

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	8.9	15.5	6.5	4.0	1.8	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	342	4
6-7	.0	1.0	5.8	8.2	9.3	4.1	2.0	.8	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	383	6
8-9	.2	1.1	2.9	3.4	4.2	2.1	1.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	7
10-11	.0	.1	.7	.2	.9	.8	.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	8
12-13	.0	.0	.3	.5	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
>13	.0	.0	.0	.0	.1	.2	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	10
INDEX	3.5	.8	.9	.2	.3	.3	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	3
TOTAL	8.6	14.5	34.8	23.2	20.1	12.3	6.8	4.5	4.0	4	1	0	0	0	0	0	0	0	0	1333	5
PCT	6.5	12.4	26.1	18.9	15.1	9.2	5.1	3.4	3.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

OCTOBER

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.3	1.2	.6	.0	.0	.0	.0	2.1	.3	.1	10.1	.6	5.1	.0	81.8
NE	1.0	.0	.0	.0	.0	.0	.0	1.0	1.3	.0	12.0	1.0	2.6	.0	82.1
E	2.1	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	25.3	1.4	10.0	.0	58.4
SE	8.3	.6	4.6	.0	.0	.0	.0	11.0	2.7	.6	18.3	.3	7.0	.0	59.9
S	9.5	2.1	3.3	.0	.0	.0	.0	13.2	1.3	.0	18.0	1.0	5.4	.0	61.2
SW	2.3	1.2	2.0	.0	.0	.0	.0	6.4	.0	.0	14.1	.0	7.0	.0	72.5
W	.8	.0	2.0	.0	.0	.0	.0	2.8	.0	.0	18.0	.6	10.7	.0	68.0
NW	.8	.1	2.2	.0	.0	.0	.0	3.1	.4	.1	12.8	1.1	5.7	.0	76.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	.0	.7	.0	.0	.0	.0	1.4	.0	.0	18.7	.0	6.5	.0	73.4
TOT PCT	2.1	.6	2.0	.0	.0	.0	.0	4.3	.5	.1	14.4	.7	6.4	.0	73.6
TOT OBS:	2508														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	2.0	.7	2.3	.0	.0	.0	.0	4.5	.8	.1	13.6	.8	6.6	.0	73.4
0600	1.9	.8	3.1	.0	.0	.0	.0	5.6	.6	.0	10.6	1.0	2.1	.0	80.0
1200	1.6	1.0	1.8	.0	.0	.0	.0	4.1	.4	.1	17.2	.6	5.6	.0	71.9
1800	2.7	.3	1.0	.0	.0	.0	.0	3.6	.1	.0	15.9	.4	9.4	.0	70.6
TOT PCT	2.1	.7	1.9	.0	.0	.0	.0	4.4	.5	.1	14.6	.7	6.3	.0	73.5
TOT OBS:	2567														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	6.4	10.2	5.1	.6	.1		23.6	15.7	21.0	12.9	33.2	27.5	28.2	20.2	31.6	15.1	
NE	.5	1.9	1.0	.2	.1	.0		3.8	10.6	2.8	3.2	3.9	2.2	4.0	4.1	4.5	5.0	
E	1.0	1.5	.5	.0	.0	.0		3.0	6.6	1.9	3.6	1.7	.3	2.4	6.3	4.1	2.8	
SE	1.1	3.4	1.6	.4	.1	.0		6.6	9.8	5.3	5.8	5.8	5.9	7.3	9.0	6.0	7.3	
S	1.3	4.5	2.1	.6	.2	.0		8.8	10.6	9.5	11.4	6.6	8.8	7.3	8.2	9.0	9.7	
SW	2.0	3.9	1.7	.3	.0	.0		7.9	8.2	7.0	15.1	4.9	6.4	4.2	8.5	5.5	12.6	
W	2.8	5.9	3.0	.3	.0	.0		11.9	8.2	13.4	19.9	8.1	12.4	5.0	12.7	7.5	18.0	
NW	2.0	10.5	12.1	3.9	.4	.0		28.9	13.5	34.8	24.5	32.1	33.9	34.8	22.6	26.9	21.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.5							5.5	.0	4.1	3.7	3.8	2.5	6.9	8.4	4.9	8.0	
TOT OBS	500	1087	920	309	44	4	2864		11.4	486	300	373	157	403	369	388	388	
TOT PCT	17.5	38.0	32.1	10.8	1.5	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	4.2	9.3	7.8	2.1	.2		23.6	15.7	17.9	31.5	24.4	23.3	
NE	1.5	1.6	.4	.2	.1		3.8	10.6	3.0	3.4	4.0	4.7	
E	1.9	.9	.2	.0	.0		3.0	6.6	2.5	1.3	4.2	3.4	
SE	3.0	2.6	.7	.3	.0		6.6	9.8	5.5	5.8	8.1	6.7	
S	3.3	3.8	1.1	.6	.0		8.8	10.6	10.2	7.3	7.7	9.3	
SW	4.0	3.1	.6	.1	.0		7.9	8.2	10.1	5.3	6.3	9.1	
W	5.8	5.1	1.1	.1	.0		11.9	8.2	15.9	9.4	8.7	12.8	
NW	5.9	13.3	8.2	1.5	.0		28.9	13.5	30.9	32.6	29.0	24.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.5						5.5	.0	3.9	3.4	7.6	6.4	
TOT OBS	1007	1136	375	137	9	2864		11.4	786	530	772	776	
TOT PCT	35.2	39.7	20.1	4.8	.3		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973AREA 0036 POINT ARENA
38.3N 124.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.9	11.1	38.5	33.2	10.9	1.9	.4	12.0	100.0	786
0600	3.4	5.5	34.7	38.9	15.3	2.3	.0	13.7	100.0	530
1200	7.6	14.9	36.1	30.7	9.5	1.2	.0	10.5	100.0	772
1800	6.4	14.3	41.4	27.8	8.9	1.0	.1	10.2	100.0	776
TOT	198	342	1087	920	309	44	4	11.4		2864
PCT	5.5	11.9	38.0	32.1	10.8	1.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	18.0	3.2	4.2	5.1		2.8
NE	2.1	.7	.4	1.0		3.3
E	.7	.2	.3	.9		4.9
SE	1.2	.4	1.0	2.2		5.4
S	1.0	.7	1.5	4.2		6.2
SW	1.3	.9	1.2	2.1		5.2
W	3.3	.5	2.4	1.8		4.1
NW	19.0	3.1	4.5	6.0		3.0
CALM	.0	.0	.0	.0		.0
VAR	1.7	.3	.6	2.2		4.7
TOT OBS	594	123	199	314	1230	3.6
TOT PCT	48.3	10.0	16.2	25.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.7	.2	.4	1.1	2.2	1.4	.1	.2	.0	.1	23.1	
.3	.0	.1	.4	.2	.2	.1	.0	.0	.0	2.8	
.2	.0	.0	.3	.5	.1	.0	.0	.0	.0	.9	
.5	.0	.2	.8	.8	.4	.0	.0	.0	.1	2.0	
1.0	.1	.3	1.1	1.1	.7	.2	.0	.1	.2	2.7	
.3	.1	.3	.5	1.0	.3	.0	.0	.0	.2	2.6	
.4	.1	.4	.5	.9	.4	.2	.1	.0	.0	4.8	
1.8	.1	.6	2.0	2.4	1.0	.2	.2	.0	.2	24.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.4	.6	.3	.2	.0	.1	.1	.0	2.3	
.88	.7	.35	.89	.115	.58	.10	.7	.3	.10	808	1230
7.2	.6	2.8	7.2	9.3	4.7	.8	.6	.2	.8	65.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
= OR >3500	1.3	2.5	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	4.5	6.6	7.2	7.3	7.3	7.3	7.3	7.3
= OR >1000	10.7	15.2	16.3	16.8	16.9	16.9	16.9	16.9
= OR >600	14.8	21.5	23.4	23.8	23.9	24.0	24.0	24.0
= OR >300	15.6	23.7	26.2	26.6	26.7	26.8	26.8	26.8
= OR >150	15.7	23.9	26.6	27.0	27.1	27.2	27.4	27.4
= OR >0	16.0	24.8	28.2	29.5	30.1	30.9	33.6	34.5
TOTAL	199	309	351	367	375	385	419	430

TOTAL NUMBER OF OBS: 1246

PCT FREQ NH <5/8: 65.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
34.7	9.5	11.1	5.0	4.3	3.2	4.2	4.3	18.0	5.6
									1330

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

OCTOBER

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.1	.*	.1	.2	.0	.0	.6	
	NO PCP	1.3	.1	.3	.4	.8	.6	.9	1.6	.0	.8	6.6	
	TOT %	1.4	.1	.3	.5	.9	.6	1.0	1.8	.0	.8	7.2	
1/2<1	PCP	.0	.0	.0	.*	.1	.0	.0	.3	.0	.0	.4	
	NO PCP	.3	.1	.2	.3	.3	.3	.4	.3	.0	.1	2.2	
	TOT %	.3	.1	.2	.3	.4	.3	.4	.6	.0	.1	2.6	
1<2	PCP	.0	.0	.0	.1	.1	.1	.1	.1	.0	.*	.5	
	NO PCP	.2	.*	.*	.2	.2	.1	.4	.5	.0	.1	1.7	
	TOT %	.2	.*	.*	.3	.3	.1	.6	.5	.0	.2	2.2	
2<5	PCP	.0	.0	.1	.2	.3	.2	.1	.1	.0	.*	.8	
	NO PCP	.7	.2	.3	.7	1.0	.9	1.2	1.7	.0	.1	6.7	
	TOT %	.7	.2	.4	.9	1.2	1.1	1.2	1.8	.0	.1	7.5	
5<10	PCP	.3	.0	.*	.3	.4	.2	.0	.2	.0	.0	1.5	
	NO PCP	9.4	1.0	.7	1.7	1.8	2.2	3.6	6.8	.0	1.4	24.8	
	TOT %	9.8	1.0	.8	2.0	2.3	2.4	3.6	7.0	.0	1.4	26.3	
10+	PCP	.1	.*	.*	.1	.2	.1	.1	.*	.0	.0	.6	
	NO PCP	15.9	2.4	1.1	2.2	3.5	3.5	5.9	16.0	.0	3.1	53.7	
	TOT %	16.0	2.5	1.1	2.2	3.7	3.6	5.9	16.1	.0	3.1	54.3	
TOT OBS													2497
TOT PCT													24.2 3.9 2.8 6.2 8.8 8.1 12.7 27.8 .0 5.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.*	.2	.2	.3	.2	.2	.3	.0	.7	2.3	
	4-10	.8	.1	.1	.3	.4	.3	.6	1.0	.0	.*	3.6	
	11-21	.4	.0	.*	.1	.2	.*	.2	.5	.0	.*	1.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.*	.0	.*	.1	
	TOT %	1.4	.1	.3	.5	.9	.5	1.0	1.9	.0	.7	7.4	
1/2<1	0-3	.1	.0	.2	.2	.1	.1	.2	.1	.0	.1	1.1	
	4-10	.*	.1	.*	.1	.3	.2	.3	.2	.0	.*	1.2	
	11-21	.1	.*	.0	.*	.1	.1	.0	.3	.0	.*	.7	
	22+	.0	.0	.0	.0	.1	.0	.*	.*	.0	.*	.1	
	TOT %	.2	.1	.2	.3	.6	.4	.5	.7	.0	.1	3.1	
1<2	0-3	.1	.*	.1	.*	.1	.*	.2	.1	.0	.1	.8	
	4-10	.1	.*	.*	.1	.1	.2	.3	.3	.0	.*	1.2	
	11-21	.1	.0	.0	.1	.*	.1	.1	.2	.0	.*	.7	
	22+	.0	.0	.0	.0	.1	.*	.0	.0	.0	.*	.1	
	TOT %	.2	.1	.1	.3	.3	.4	.6	.6	.0	.1	2.7	
2<5	0-3	.2	.*	.1	.2	.1	.2	.2	.2	.0	.1	1.3	
	4-10	.2	.1	.2	.5	.6	.5	.8	.8	.0	.*	3.6	
	11-21	.3	.1	.*	.1	.3	.3	.2	.7	.0	.*	2.0	
	22+	.1	.0	.0	.1	.2	.1	.*	.1	.0	.*	.6	
	TOT %	.8	.2	.4	.8	1.1	1.0	1.1	1.9	.0	.1	7.6	
5<10	0-3	.2	.1	.2	.2	.3	.3	.8	.5	.0	1.5	4.1	
	4-10	1.5	.3	.4	.9	.9	1.4	1.4	2.5	.0	.*	9.4	
	11-21	2.7	.3	.1	.5	.6	.5	1.2	3.0	.0	.*	9.0	
	22+	1.3	.1	.0	.3	.4	.2	.1	1.3	.0	.*	3.6	
	TOT %	5.8	.9	.7	1.9	2.2	2.3	3.4	7.3	.0	1.5	26.1	
10+	0-3	.7	.3	.3	.2	.4	1.2	1.3	.7	.0	3.1	8.3	
	4-10	3.8	1.3	.6	1.3	1.9	1.5	2.6	5.4	.0	.*	18.4	
	11-21	6.6	.6	.2	.6	1.0	.7	1.4	7.4	.0	.*	18.7	
	22+	4.2	.2	.*	.1	.2	.*	.2	2.8	.0	.*	7.8	
	TOT %	15.3	2.3	1.2	2.2	3.5	3.5	5.6	16.3	.0	3.1	53.1	
TOT OBS													2686
TOT PCT													24.0 3.8 2.9 6.1 8.6 8.1 12.3 28.6 .0 9.7 100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

AREA 0036 POINT ARENA
38.3N 124.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL DBS
00003	6.6	.3	2.4	7.5	8.1	4.8	.9	.9	.0	.6	32.0	68.0	334
06009	4.7	.9	2.3	5.2	9.3	4.7	.9	.3	.0	.9	29.1	70.9	344
12015	8.0	.3	4.2	6.2	8.3	3.5	1.7	.7	.7	1.0	34.6	65.4	289
18021	9.0	.6	2.5	8.6	11.1	4.9	.0	.9	.3	.6	38.6	61.4	324
TOT	90	7	36	89	119	58	11	9	3	10	432	859	1291
PCT	7.0	.5	2.8	6.9	9.2	4.5	.9	.7	.2	.8	33.5	66.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	6.0	3.6	2.8	9.7	30.0	48.0	796
06009	7.6	2.3	1.2	4.1	22.5	62.2	511
12015	9.3	3.4	1.8	6.5	26.7	30.3	739
18021	7.8	2.7	2.6	8.6	25.0	53.3	741
TOT	211	84	74	206	724	1448	2747
PCT	7.7	3.1	2.7	7.5	26.4	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL DBS
00003	6.9	10.4	21.1	14.8	64.2	318
06009	4.8	9.2	16.1	15.5	68.5	336
12015	7.9	12.6	21.7	14.8	63.5	277
18021	9.5	13.7	26.0	15.9	58.1	315
TOT	90	142	263	190	793	1246
PCT	7.2	11.4	21.1	15.2	63.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/89	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
80/84	.0	.1	.1	.0	.0	.0	.0	.0	2	.1
75/79	.1	.1	.1	.2	.4	.1	.1	.1	20	1.0
70/74	.0	.3	.2	.4	.8	.9	.1	.3	56	2.8
65/69	.0	.0	.2	.3	1.7	2.5	2.3	1.5	166	8.4
60/64	.0	.1	.2	1.1	3.2	7.3	12.5	7.4	625	31.8
55/59	.0	.0	.0	.5	1.7	7.9	17.5	17.3	883	44.9
50/54	.0	.0	.0	.1	.2	.8	3.0	6.3	203	10.3
45/49	.0	.0	.0	.0	.1	.1	.1	.3	11	.6
TOTAL	3	10	12	47	157	387	699	652	1967	100.0
PCT	.2	.5	.6	2.4	8.0	19.7	35.5	33.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
.0	.1	.0	.1	.1	.2	.3	.0	.0	.3
.2	.1	.3	.2	.1	.5	.8	.4	.0	.4
.9	.3	.6	.6	.9	1.4	1.7	1.6	.0	.5
6.9	1.2	.9	1.9	3.4	4.0	4.7	7.1	.0	1.6
11.5	1.9	.9	2.7	3.6	2.9	5.3	14.1	.0	1.9
2.7	.2	.3	.5	.6	.5	.8	4.0	.0	.8
.1	.1	.0	.0	.0	.0	.1	.2	.0	.1
22.3	3.8	2.9	6.0	8.8	9.4	13.6	27.4	.0	5.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	85	77	69	60	54	52	49	60.4	793
06009	70	66	63	57	52	51	49	57.6	561
12015	75	66	63	57	52	49	46	57.4	795
18021	80	75	70	60	54	51	48	60.5	781
TOT	85	73	67	59	53	50	46	59.1	2910

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.5	4.1	12.1	22.0	33.2	28.1	82	563
06009	.0	1.4	3.7	15.7	40.5	38.7	86	351
12015	.0	1.4	4.1	14.7	38.4	41.5	87	316
18021	.0	6.0	9.8	24.5	32.0	27.7	82	363
TOT	3	69	157	393	707	664	84	1993

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

TABLE 17

AREA 0036 POINT ARENA
38.5N 124.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	2	*	*
14/16	.0	.0	.0	*	*	.1	.2	.0	*	10	.0	.5
11/13	.0	.0	.0	.0	.2	.3	.4	.0	.0	19	*	.9
9/10	.0	.0	.0	.1	.5	.4	.3	.0	.0	28	.1	1.3
7/8	.0	.0	.0	.6	1.1	.8	.3	.0	.0	57	.3	2.4
6	.0	.0	.0	.7	.7	.2	.0	.0	.0	33	.2	1.4
5	.0	.0	.2	1.0	1.3	.6	*	.0	.0	64	.6	2.5
4	.0	.0	.8	1.8	1.8	.7	.1	*	.0	103	.6	4.4
3	.0	*	1.0	1.7	1.6	.8	.1	.0	.0	105	.6	4.5
2	.0	.2	2.3	3.5	2.6	.8	.1	.0	.0	195	1.2	8.4
1	.0	.2	1.6	4.3	2.2	.7	.0	.0	.0	186	1.5	7.6
0	.0	.4	3.5	5.9	3.6	.4	*	.0	.0	285	2.0	12.0
-1	.0	.4	2.1	5.5	2.0	.2	.0	.0	.0	208	1.2	8.9
-2	.0	.5	3.5	5.9	2.3	.1	.0	.0	.0	259	1.8	10.6
-3	.0	.4	2.3	3.5	1.1	*	.0	.0	.0	151	1.1	6.3
-4	.1	.4	2.1	2.9	.6	.0	.0	.0	.0	127	.7	5.5
-5	.0	.4	1.8	2.1	.3	.0	.0	.0	.0	94	.7	3.9
-6	.0	.2	.8	1.3	*	.0	.0	.0	.0	49	.3	2.1
-7/-8	.0	.5	1.5	.6	*	.0	.0	.0	.0	53	.9	1.7
-9/-10	*	.1	.5	.2	.0	.0	.0	.0	.0	15	.2	.5
-11/-13	.0	.1	.2	*	.0	.0	.0	.0	.0	8	.1	.3
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3	85	490	851	452	130	31	2	2	2046	292	1754
PCT	.1	4.2	23.9	41.6	22.1	6.4	1.5	.1	.1	100.0	14.3	85.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	2.1	.2	.0	.0	.0	3.0	.0	.4	.0	.0	.0	.0	.4
1-2	.2	2.4	2.1	.0	.0	.0	4.7	.0	1.3	.4	.0	.0	.0	1.7
3-4	.2	1.8	4.9	1.5	.0	.0	8.4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.7	3.1	2.1	.2	.0	6.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	2.1	1.7	.0	.0	3.8	.0	.0	.1	.6	.0	.0	.7
8-9	.0	.0	.5	.9	.1	.1	1.7	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.1	12.9	6.8	.3	.1	28.2	.0	2.0	1.1	.8	.0	.0	3.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.3
1-2	.0	.9	.0	.0	.0	.0	.9	.0	1.2	.3	.0	.0	.0	1.5
3-4	.0	.1	.3	.0	.0	.0	.4	.0	1.2	.5	.1	.0	.0	2.0
5-6	.0	.0	.2	.0	.0	.0	.2	.0	*	.4	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	.5	.0	.0	.0	2.0	.4	2.5	1.5	.5	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0036 POINT ARENA
38.5N 124.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.5	1.3	.0	.0	.0	.0	1.7	.0	.7	.0	.0	.0	.0	.7	2.5
1-2	.2	2.0	.8	.0	.0	.0	2.7	.2	.9	.1	.0	.0	.0	1.2	10.4
3-4	.0	.9	.7	.4	.0	.0	2.0	.2	1.0	.6	.0	.0	.0	1.7	9.1
5-6	.2	.1	.6	.0	.0	.0	.9	.0	.3	.3	.0	.0	.0	.9	6.6
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	3.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.5
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	2.5	.5	.0	.0	8.1	.3	3.1	1.5	.4	.0	.0	5.5	93.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.5	.3	.0	.0	.0	.0	.7	.6	1.9	.0	.0	.0	.0	.5	2.5
1-2	.0	1.9	.4	.0	.0	.0	2.3	.9	6.6	2.9	.0	.0	.0	10.4	9.1
3-4	.2	1.5	.5	.0	.0	.0	2.2	.3	2.8	5.0	.9	.0	.0	9.1	6.6
5-6	.0	.1	.6	.0	.0	.0	.7	.0	1.2	4.2	1.2	.0	.0	6.6	3.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.3	1.7	.9	.0	.0	3.0	2.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.2	1.1	.8	.2	.0	.5	.3
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.2	.0	.0	.2	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.8	1.8	.1	.0	.0	6.4	1.8	13.1	15.7	4.0	.4	.0	24.9	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.7	7.4	.2	.0	.0	.0	16.3	DBS
1-2	1.7	17.1	6.9	.0	.0	.0	25.6	
3-4	1.0	9.5	12.6	2.9	.0	.0	26.1	
5-6	.2	2.8	9.5	3.3	.2	.0	15.9	
7	.0	.3	5.2	3.1	.0	.0	8.7	
8-9	.0	.2	2.1	2.1	.3	.2	4.8	
10-11	.0	.0	.3	1.2	.0	.0	1.6	
12	.0	.0	.3	.2	.0	.0	.5	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	37.4	37.2	13.0	.7	.2	100.0	578

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	10.1	13.1	5.6	3.2	1.7	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	426	4
6-7	.0	1.8	6.1	7.1	5.3	3.8	2.2	.6	.7	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	323	6
8-9	.0	.7	2.8	3.8	3.4	3.2	2.1	1.2	1.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	218	7
10-11	.0	.3	.8	.9	1.1	1.2	1.1	.5	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	74	8
12-13	.0	.0	.1	.3	.3	.3	1.0	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	35	10
>13	.0	.0	.0	.3	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDEX	3.7	1.7	.3	.7	.3	.1	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	2
TOTAL	66	198	267	216	160	124	84	35	30	11	6	1	3	0	0	0	0	0	0	1161	5
PCT	5.7	13.6	23.0	18.6	13.8	10.7	7.2	3.0	2.6	.9	.5	.1	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1877-1973

NOVEMBER

AREA 0030 POINT ARENA
38.3N 123.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SPHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.4	.0	1.1	.0	.0	.0	.0	1.4	.4	.2	5.3	.3	5.8	.0	86.6
NE	1.5	.0	1.5	.0	.0	.0	.0	3.1	.2	.0	9.0	1.0	7.9	.0	78.8
E	3.7	.0	2.6	.0	.0	.0	.0	5.0	2.4	.0	8.3	.7	19.5	.0	64.1
SE	13.1	1.6	8.1	.0	.0	.0	.0	20.6	2.6	.0	13.7	.3	4.4	.3	58.1
S	10.4	3.5	7.1	.0	.0	.0	.0	19.8	2.5	.0	10.8	.0	5.3	.0	61.6
SW	7.9	1.7	3.7	.0	.0	.0	.0	11.7	3.9	.0	7.7	.5	9.2	.0	67.0
W	4.0	1.2	3.1	.0	.0	.0	.0	7.6	1.0	.4	5.6	.9	7.1	.0	77.4
NW	1.7	.8	1.1	.0	.0	.0	.0	3.2	1.3	.0	9.3	.4	5.3	.0	80.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	1.0	.0	.0	.0	.0	2.6	.0	.0	18.4	.5	4.6	.0	74.0
TOT PCT	4.8	1.1	3.2	.0	.0	.0	.0	8.4	1.5	.1	9.3	.4	6.5	.0	73.8
TOT OBS:	2692														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.6	.5	3.1	.0	.0	.0	.0	6.5	1.0	.0	7.0	.2	5.7	.0	79.6
04009	4.9	1.3	3.8	.0	.0	.0	.0	8.2	2.5	.0	8.9	.4	1.9	.2	77.8
12015	5.4	1.1	2.8	.0	.0	.0	.0	8.9	1.5	.3	11.0	.3	7.7	.0	70.3
18021	5.2	1.7	3.4	.0	.0	.0	.0	9.8	1.3	.0	10.4	.7	8.7	.1	68.9
TOT PCT TOT OBS:	4.8 2736	1.1	3.2	.0	.0	.0	.0	8.3	1.5	.1	9.3	.4	6.4	.1	73.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.6	7.3	7.3	2.5	.4	.0		19.2	13.1	16.6	15.3	19.0	27.0	21.6	21.1	20.8	17.7	
NE	1.3	2.5	.7	.3	.1	.0		4.9	8.2	2.8	7.4	4.5	2.0	4.6	8.0	4.3	5.9	
E	1.0	2.0	.9	.3	.0	.0		4.1	8.7	3.8	3.7	2.9	2.9	2.5	7.3	4.4	5.3	
SE	1.1	4.6	4.4	1.5	.2	.0		11.8	12.7	10.3	8.2	11.5	9.0	13.8	10.8	17.6	10.3	
S	1.5	5.0	5.3	1.3	.2	.0		13.6	12.2	12.4	12.8	15.3	12.3	14.5	12.3	15.6	12.6	
SW	.9	3.1	2.9	.8	.0	.0		7.8	11.5	8.9	8.5	8.5	5.5	6.5	7.5	6.4	8.6	
W	1.0	5.1	3.7	.4	.0	.0		10.3	10.0	14.2	13.8	9.4	8.4	3.7	9.5	7.2	12.6	
NW	1.7	9.2	7.8	1.6	.2	.0		20.7	11.7	24.7	24.6	19.8	27.0	19.7	16.2	16.3	20.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.6							7.6	.0	6.3	5.6	9.2	5.7	11.0	7.4	7.5	6.2	
TOT OBS	328	1132	987	266	30	1	2964		10.8	589	269	382	122	447	351	400	404	
TOT PCT	17.8	38.9	39.3	9.0	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	5.0	8.5	4.5	1.0	.2		19.2	13.1	16.2	20.9	21.4	19.2	
NE	2.7	1.6	.4	.2	.0		4.9	8.2	4.2	3.9	6.1	5.1	
E	2.0	1.6	.5	.1	.0		4.1	8.7	3.8	2.9	4.6	4.9	
SE	3.2	5.0	3.0	.5	.1		11.8	12.7	9.6	10.9	12.4	13.9	
S	3.5	6.7	2.8	.5	.0		13.6	12.2	12.5	14.6	13.5	14.1	
SW	2.3	3.8	1.4	.3	.0		7.8	11.5	8.7	7.8	7.0	7.5	
W	3.5	5.5	1.3	.1	.0		10.3	10.0	14.1	9.1	7.4	9.9	
NW	5.7	10.4	4.0	.6	.1		20.7	11.7	24.7	21.6	18.1	18.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.6						7.6	.0	6.1	8.3	9.4	6.8	
TOT OBS	1046	1279	932	97	10	2964		10.8	858	504	798	804	
TOT PCT	35.3	43.2	17.9	3.3	.3		100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1877-1973

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.1	10.7	38.2	35.0	9.2	.8	.0	10.8	100.0	858
0600	8.3	5.4	39.1	35.7	10.1	1.4	.0	11.7	100.0	904
1200	9.4	11.3	39.0	31.5	7.6	1.1	.1	10.3	100.0	798
1800	6.8	11.8	39.3	31.8	9.3	.9	.0	10.7	100.0	804
TOT	224	304	1152	987	266	30	1	10.8		2964
PCT	7.6	10.3	38.9	33.3	9.0	1.0	=	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.8	3.3	4.7	3.3		3.4
NE	1.7	.7	.5	.9		3.6
E	1.2	.5	.8	.7		3.9
SE	1.5	1.1	2.4	8.2		6.4
S	1.6	1.0	2.2	9.4		6.6
SW	1.3	.6	1.8	3.3		5.8
W	1.3	1.2	2.5	2.4		5.3
NW	8.6	3.0	4.9	4.3		3.9
VAR	.0	.0	.0	.0		.0
CALM	3.8	1.2	.7	3.6		4.1
TOT OBS	425	173	284	499	1391	4.8
TOT PCT	30.8	12.5	20.6	36.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.6	.0	.4	1.3	1.8	1.1	.3	.1	.2	.1	13.1	
.3	.0	.0	.3	.3	.3	.1	.0	.0	.0	2.5	
.3	.0	.1	.2	.1	.4	.2	.0	.0	.0	1.9	
1.3	.3	.5	1.7	2.6	2.3	.2	.0	.3	.2	4.0	
1.9	.2	.7	2.0	2.6	2.4	.4	.0	.2	.2	3.8	
.3	.1	.5	1.1	1.4	.7	.0	.0	.0	.1	2.7	
.3	.0	.4	.7	1.2	.8	.3	.0	.1	.0	3.7	
1.4	.1	.7	1.1	1.5	1.2	.7	.0	.0	.1	13.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.2	.0	.3	1.7	.7	.0	.0	.1	.1	5.1	
102	11	44	118	183	137	31	1	12	13	729	1391
7.4	.8	3.2	8.5	13.3	9.9	2.2	.1	.9	.9	52.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>90YD	>0
>9500	1.1	1.6	1.8	1.8	1.8	1.8	1.8	1.8
>5000	1.2	1.7	1.9	1.9	1.9	1.9	1.9	1.9
>3500	2.8	3.9	4.1	4.1	4.1	4.1	4.1	4.1
>2000	8.8	13.0	13.8	13.9	14.0	14.0	14.0	14.0
>1000	16.4	23.7	25.7	26.5	26.9	27.1	27.1	27.1
>600	20.5	30.4	33.1	34.4	34.9	35.5	35.6	35.6
>300	21.4	32.6	35.8	37.3	37.9	38.5	38.8	38.8
>150	21.5	32.7	36.4	37.9	38.7	39.3	39.6	39.6
>0	21.5	33.2	37.8	39.9	41.3	43.5	46.0	46.9
TOTAL	300	464	528	558	580	608	642	653

TOTAL NUMBER OF OBS: 1397

PCT FREQ NM <5/8: 53.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
23.3	7.9	9.7	6.5	5.4	4.7	5.7	5.2	25.5	1470

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1877-1973

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AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0	.6	
	NO PCP	.5	.1	.1	.5	.8	.2	.3	1.0	.0	.6	4.1	
	TOT %	.5	.1	.1	.8	1.1	.3	.3	1.0	.0	.6	4.7	
1/2<1	PCP	.1	.0	.0	.2	.1	.1	.1	.0	.0	.0	.7	
	NO PCP	.2	.1	.1	.5	.3	.2	.1	.3	.0	.2	2.1	
	TOT %	.3	.1	.2	.7	.5	.3	.2	.3	.0	.2	2.8	
1<2	PCP	.0	.0	.1	.3	.4	.2	.1	.1	.0	.0	1.1	
	NO PCP	.3	.1	.2	.2	.6	.3	.4	.6	.0	.3	3.1	
	TOT %	.3	.1	.3	.5	1.0	.5	.4	.7	.0	.3	4.2	
2<5	PCP	.1	.0	.1	.7	.7	.2	.1	.1	.0	.1	2.2	
	NO PCP	.6	.3	.5	.6	.4	.6	1.0	1.1	.0	.5	5.5	
	TOT %	.8	.3	.5	1.3	1.0	.8	1.1	1.2	.0	.6	7.7	
5<10	PCP	.0	.1	.0	.5	1.0	.3	.4	.3	.0	.1	2.7	
	NO PCP	5.4	1.2	1.0	2.2	3.5	2.2	2.9	5.4	.0	1.5	23.4	
	TOT %	5.4	1.2	1.0	2.8	4.5	2.5	3.3	5.7	.0	1.6	28.1	
10+	PCP	.0	.0	.0	.4	.4	.1	.1	.1	.0	.0	1.1	
	NO PCP	11.9	2.9	2.1	5.1	5.6	3.6	4.9	11.2	.0	4.1	51.5	
	TOT %	12.0	3.0	2.1	5.4	5.9	3.7	5.0	11.3	.0	4.1	52.6	
TOT OBS													2689
TOT PCT		19.4	4.8	4.2	11.5	14.0	8.1	10.4	20.2	.0	7.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.1	.0	.0	.0	.0	.1	.1	.2	.0	.6	1.2	
	4-10	.1	.0	.1	.4	.4	.1	.3	.4	.0		1.6	
	11-21	.2	.0	.1	.3	.6	.1	.0	.4	.0		1.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.2	
	TOT %	.5	.1	.1	.8	1.0	.3	.4	.9	.0	.6	4.7	
1/2<1	0-9	.1	.0	.1	.1	.1	.1	.1	.0	.0	.2	.8	
	4-10	.2	.1	.1	.3	.2	.1	.1	.2	.0		1.1	
	11-21	.0	.0	.0	.2	.1	.1	.1	.1	.0		.6	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0		.3	
	TOT %	.3	.1	.2	.7	.5	.3	.2	.3	.0	.2	2.8	
1<2	0-9	.1	.1	.1	.1	.2	.1	.1	.1	.0	.2	1.1	
	4-10	.3	.0	.0	.1	.3	.2	.2	.4	.0		1.6	
	11-21	.1	.0	.1	.2	.4	.2	.3	.2	.0		1.3	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.3	
	TOT %	.5	.1	.3	.5	1.0	.5	.6	.8	.0	.2	4.6	
2<5	0-9	.1	.1	.2	.2	.1	.1	.1	.2	.0	.6	1.6	
	4-10	.4	.2	.2	.3	.3	.3	.8	.9	.0		3.3	
	11-21	.3	.0	.1	.5	.4	.4	.3	.2	.0		2.2	
	22+	.0	.0	.1	.3	.2	.1	.0	.1	.0		.6	
	TOT %	.8	.3	.6	1.3	1.0	.8	1.1	1.3	.0	.6	7.7	
5<10	0-9	.5	.3	.2	.3	.4	.2	.4	.5	.0	1.6	4.3	
	4-10	2.0	.5	.5	1.0	1.3	1.0	1.7	2.7	.0		10.7	
	11-21	1.8	.3	.3	1.0	2.0	.9	1.1	2.0	.0		9.3	
	22+	.8	.1	.0	.6	.7	.3	.1	.4	.0		3.0	
	TOT %	5.2	1.2	1.0	2.9	4.4	2.4	3.3	5.6	.0	1.6	27.4	
10+	0-9	.7	.8	.4	.4	.6	.4	.4	.6	.0	4.2	8.4	
	4-10	4.3	1.6	1.2	2.6	2.4	1.6	2.3	4.7	.0		20.6	
	11-21	3.1	.4	.5	2.1	2.1	1.4	2.0	4.9	.0		18.3	
	22+	2.0	.2	.2	.5	.6	.3	.3	1.4	.0		5.4	
	TOT %	12.0	3.0	2.2	5.5	5.7	3.7	5.0	11.5	.0	4.2	52.8	
TOT OBS													2814
TOT PCT		19.3	4.8	4.3	11.6	13.7	8.0	10.5	20.4	.0	7.5	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1877-1973AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00Z03	6.6	1.6	2.7	9.6	13.5	9.6	2.5	.0	.3	.5	47.0	53.0	764
06Z09	6.1	.6	2.5	6.1	13.9	10.0	2.2	.0	1.1	.8	43.2	56.8	361
12Z15	7.5	.3	3.8	6.4	11.0	8.7	2.9	.0	1.4	1.4	43.4	56.6	346
18Z21	8.5	.6	3.3	11.0	13.2	10.7	1.1	.3	.6	.8	50.1	49.9	363
TOT	103	11	44	119	185	140	31	1	12	13	659	775	1434
PCT	7.2	.8	3.1	8.3	12.9	9.8	2.2	.1	.8	.9	46.0	54.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	3.6	1.7	3.7	9.0	31.7	50.4	836
06Z09	5.4	2.0	3.2	3.0	22.2	64.1	496
12Z15	5.8	4.0	5.4	7.5	27.4	49.9	759
18Z21	4.3	3.4	5.5	9.4	25.4	52.0	767
TOT	134	80	130	219	778	1517	2898
PCT	4.7	2.8	4.5	7.7	27.2	53.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00Z03	6.8	12.5	23.6	23.9	50.4	351
06Z09	6.2	11.0	19.4	23.4	55.2	355
12Z15	7.5	12.8	23.6	21.8	54.6	335
18Z21	8.7	15.2	27.8	23.6	48.6	356
TOT	102	180	337	331	729	1397
PCT	7.3	12.9	24.1	23.7	52.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
75/79	.0	.1	.0	.0	.1	.0	.0	.0	6	.3
70/74	.4	.4	.3	.3	.0	.1	.0	.1	37	1.8
65/69	.1	.8	.6	.4	.4	.8	.2	.6	84	4.0
60/64	.2	.2	1.2	1.6	3.1	3.8	5.4	3.1	391	18.6
55/59	.0	.0	.5	.8	3.3	10.8	18.1	14.2	993	47.4
50/54	.0	.0	.4	.3	2.1	3.2	9.5	8.5	507	24.2
45/49	.0	.0	.0	.1	.2	.7	.9	1.3	68	3.2
40/44	.0	.0	.0	.0	.0	.1	.0	.2	8	.4
TOTAL	15	35	66	73	196	406	716	590	2097	100.0
PCT	.7	1.7	3.1	3.5	9.3	19.4	34.1	28.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
.2	.2	.2	.1	.1	.1	.2	.5	.0	.1
.6	.2	.3	.5	.3	.3	.6	1.0	.0	.2
2.7	.9	.9	1.4	3.2	3.0	2.6	3.1	.0	.8
9.4	2.3	1.8	5.4	6.9	4.2	6.1	9.3	.0	2.2
6.1	1.5	1.1	2.4	2.3	1.3	2.4	3.6	.0	1.4
.6	.4	.3	.1	.1	.1	.4	1.0	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
19.7	5.4	4.7	10.0	13.0	9.0	12.3	20.6	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	81	72	68	58	52	49	43	58.3	869
06Z09	70	63	61	55	51	49	44	55.7	513
12Z15	75	64	61	55	48	44	40	54.7	801
18Z21	75	72	66	57	51	46	44	57.7	818
TOT	81	70	64	56	50	46	40	56.7	3001

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	1.8	13.8	10.0	21.3	31.5	21.6	77	658
06Z09	.0	.9	3.4	18.1	41.4	36.2	86	326
12Z15	.0	3.0	7.6	15.6	38.1	35.8	85	565
18Z21	.9	12.3	13.3	21.5	28.9	23.2	78	578
TOT	17	182	197	411	724	596	81	2127

NOVEMBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1877-1973

TABLE 17

AREA 0036 POINT ARENA
38.5N 123.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
16/18	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	15	.0	.6
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.9	.0	.0	.0	27	.0	1.2
9/10	.0	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	.0	22	.0	.9
7/8	.0	.0	.0	.0	.0	.3	.7	.8	.0	.0	.0	.0	41	.1	1.7
6	.0	.0	.0	.0	.0	.4	.9	.3	.0	.0	.0	.0	40	.0	1.7
5	.0	.0	.0	.0	.1	1.2	.9	.1	.0	.0	.0	.0	55	.2	2.2
4	.0	.0	.0	.0	.6	1.7	1.5	.3	.0	.0	.0	.0	96	.3	3.6
3	.0	.0	.0	.0	.9	2.9	1.3	.1	.0	.0	.0	.0	122	.2	5.1
2	.0	.0	.0	.3	3.2	4.4	1.1	.2	.0	.0	.0	.0	213	1.1	8.1
1	.0	.0	.0	.2	4.5	4.1	1.1	.0	.0	.0	.0	.0	230	.9	9.0
0	.0	.0	.0	.7	6.3	5.2	1.2	.0	.0	.0	.0	.0	313	1.6	11.8
-1	.0	.0	.0	1.2	6.2	3.7	.6	.0	.0	.0	.0	.0	275	1.1	10.7
-2	.0	.0	.0	2.5	6.2	2.3	.4	.0	.0	.0	.0	.0	266	1.2	10.2
-3	.0	.0	.1	1.7	4.0	2.1	.2	.0	.1	.0	.0	.0	190	.6	7.5
-4	.0	.0	.1	1.5	4.0	.8	.2	.0	.0	.0	.0	.0	155	.9	5.8
-5	.0	.0	.1	1.2	1.9	1.1	.1	.0	.0	.0	.0	.0	103	.4	4.0
-6	.0	.0	.4	1.3	1.2	.1	.0	.0	.0	.0	.0	.0	71	.3	2.5
-7/-8	.0	.0	.3	.6	.6	.3	.0	.0	.0	.0	.0	.0	44	.3	1.6
-9/-10	.0	.1	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	33	.1	1.3
-11/-13	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	14	.0	.6
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	3	35	284	940	714	248	60	37	7	1	1	2330	221	2109
PCT	.1	.3	1.3	12.2	40.3	30.6	10.6	2.6	1.6	.3	.0	.0	100.0	9.5	90.5

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.0	<1	.0	.4	.0	.0	.0	.0	.4
1-2	.2	2.5	1.6	.0	.0	.0	4.4	1-2	.2	.8	.0	.0	.0	.0	1.1
3-4	.0	1.2	1.9	.7	.0	.0	3.7	3-4	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.2	1.6	.8	.1	.0	2.7	5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.1	.9	.6	.0	.0	1.6	7	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.2	.1	.5	.0	.0	.8	8-9	.0	.0	.0	.0	.1	.0	.2
10-11	.0	.0	.0	.2	.3	.0	.5	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.1	.0	.4	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.8	6.2	3.1	.5	.0	16.3	TOT PCT	.2	1.7	.2	.2	.2	.0	2.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.5	<1	.2	1.8	.0	.0	.0	.0	2.0
1-2	.0	.4	.4	.0	.0	.0	.8	1-2	.0	2.2	1.1	.0	.0	.0	3.3
3-4	.0	.3	.1	.2	.0	.0	.7	3-4	.0	1.0	2.7	.2	.0	.0	3.9
5-6	.0	.0	.2	.1	.0	.0	.3	5-6	.0	.2	2.0	1.0	.1	.0	4.1
7	.0	.0	.0	.1	.0	.0	.1	7	.0	.1	1.2	.7	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.2	.1	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.1	.0	.1	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.7	.6	.0	.0	2.6	TOT PCT	.2	5.2	8.2	2.1	.3	.0	16.1

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.6	.2	.6	.0	.0	.0	.0	1.2
1-2	.0	2.9	1.6	.0	.0	.0	4.4	.1	.7	.4	.0	.0	.0	1.2
3-4	.1	1.6	2.9	.2	.0	.0	4.8	.0	1.4	1.0	.0	.0	.0	2.3
5-6	.0	.4	2.5	.3	.2	.0	3.6	.0	.4	.7	.2	.0	.0	1.3
7	.0	.2	1.0	1.0	.0	.0	2.2	.0	.2	.3	.5	.0	.0	.9
8-9	.0	.0	.1	.4	.0	.0	.5	.0	.0	.3	.5	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.4	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.4	8.1	2.2	.4	.0	17.5	.3	3.2	3.0	1.2	.0	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.6	.0	.0	.0	.0	.7	.5	.8	.0	.0	.0	.0	1.4	
1-2	.2	1.5	.2	.0	.0	.0	2.0	.2	3.4	2.0	.0	.0	.0	5.7	
3-4	.2	.9	.7	.0	.0	.0	1.8	.0	.8	2.9	.2	.0	.0	4.0	
5-6	.0	.3	.7	.1	.0	.0	1.1	.0	.3	1.6	.3	.0	.0	2.2	
7	.0	.1	.2	.0	.0	.0	.4	.0	.1	1.3	.5	.0	.0	1.9	
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.2	.4	.0	.0	.7	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.3	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.5	2.2	.7	.0	.0	7.0	.8	5.5	8.3	1.9	.2	.0	16.6	86.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	13.2	7.3	.0	.0	.0	.0	22.5	
1-2	1.4	14.4	7.3	.0	.0	.0	23.1	
3-4	.4	7.7	12.2	1.5	.0	.0	21.7	
5-6	.0	1.9	10.1	3.1	.4	.0	15.4	
7	.1	.9	5.1	3.5	.0	.0	9.6	
8-9	.0	.4	1.5	1.7	.1	.0	3.7	
10-11	.0	.0	.4	.9	.5	.0	1.7	
12	.0	.0	.1	.6	.2	.0	1.0	
13-16	.0	.0	.1	.6	.2	.0	1.0	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.0	32.5	36.8	12.0	1.6	.0	100.0	805

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	9.7	9.6	5.2	2.7	.8	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	4
6-7	.1	1.1	5.7	7.1	4.3	2.2	1.5	1.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	311	6
8-9	.0	1.1	4.4	2.7	4.7	1.6	1.2	.9	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	239	7
10-11	.0	.1	.9	.4	1.0	1.5	1.1	1.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	88	9
12-13	.0	.0	.8	.2	.2	.7	.6	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	43	9
>13	.0	.0	.0	.3	.2	.4	.2	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	26	10
INDET	5.4	1.2	2.6	2.9	2.0	.2	.5	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	3
TOTAL	94	169	309	242	196	99	71	90	44	11	7	1	1	0	0	0	0	0	0	1290	3
PCT	7.3	13.1	24.0	18.8	15.2	7.4	5.5	3.9	3.4	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1862-1973

DECEMBER

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.2	.4	1.3	.0	.2	.0	.0	4.1	1.0	.0	6.9	.0	4.4	.0	83.6
NE	2.5	.3	1.4	.0	.0	.0	.0	4.2	.9	.0	6.1	.0	20.9	.0	68.0
E	5.7	.7	2.8	.0	.0	.0	.0	8.5	1.5	.0	6.2	.0	20.9	.0	62.9
SE	13.2	2.3	7.9	.0	.0	.0	.0	21.6	2.7	.4	6.7	.7	8.8	.0	59.1
S	18.0	2.1	7.3	.0	.0	.0	.0	24.6	2.6	.6	10.8	.0	5.1	.0	56.4
SW	13.1	3.9	9.9	.0	.0	.0	.0	22.9	1.8	.5	7.5	.5	7.5	.0	59.2
W	7.2	4.2	4.7	.0	.0	.0	.0	13.1	2.6	.5	5.4	.5	3.8	1.1	70.9
NW	2.2	1.4	2.9	.0	.0	.0	.0	6.5	2.3	.0	6.5	.0	6.3	.0	78.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	8.1	.0	11.7	.0	77.5
TOT PCT	7.4	1.7	4.6	.0	*	.0	.0	12.6	1.9	.2	7.3	.2	8.4	.1	69.5
TOT OBS	2262														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000Z	7.0	1.6	4.9	.0	.0	.0	.0	12.6	1.6	.2	6.8	.2	10.5	.2	68.0
0600Z	5.9	1.1	3.4	.0	.0	.0	.0	11.1	2.0	.5	6.3	.0	2.3	.0	77.8
1201Z	8.0	2.1	4.7	.0	.0	.0	.0	14.1	2.3	.3	9.0	.2	7.7	.2	66.3
1802Z	8.5	1.5	3.3	.0	.2	.0	.0	12.1	1.6	.0	6.7	.3	10.9	.0	68.4
TOT PCT	7.5	1.7	4.5	.0	*	.0	.0	12.5	1.9	.2	7.3	.2	8.3	.1	69.5
TOT OBS	2295														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	6.5	7.3	2.8	.6	.0		18.7	13.7		17.4	20.9	21.8	20.6	19.0	18.6	19.0	15.3
NE	.9	3.2	2.7	.5	.1	.0		7.4	11.4		7.4	9.0	5.7	5.3	4.2	10.6	6.4	10.5
E	.9	3.2	2.7	.2	.0	.0		6.9	10.2		5.7	5.7	4.3	6.9	5.0	11.8	6.5	10.1
SE	1.0	4.6	5.2	1.8	.3	.0		12.8	13.4		12.3	13.4	11.6	12.9	15.4	11.7	13.4	11.8
S	1.2	4.7	5.7	2.2	.4	.0		14.1	14.1		15.1	10.4	13.4	12.9	14.1	12.2	14.7	15.3
SW	1.6	2.7	2.6	1.2	.1	.0		8.2	11.8		9.4	9.2	7.2	8.3	5.2	8.6	7.4	10.6
W	1.0	3.5	2.4	1.0	.0	.0		8.0	11.5		6.9	9.9	6.8	6.7	9.0	8.7	8.8	7.7
NW	1.6	7.2	7.8	1.9	.2	.7		18.8	12.6		21.4	15.3	24.1	21.0	19.5	13.4	18.4	15.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		4.4	6.1	.0	5.6	6.5	4.5	5.2	3.3
TOT OBS	379	920	944	300	43	1	2587			12.1	499	214	348	142	398	312	309	365
TOT PCT	14.7	35.6	36.5	11.6	1.7	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	4.4	8.2	4.8	1.3	.1		18.7	13.7		18.4	21.4	18.8	17.0	
NE	2.0	3.9	1.1	.3	.1		7.4	11.4		7.9	5.6	7.0	8.8	
E	2.2	3.5	1.1	.0	.0		6.9	10.2		5.7	5.1	8.0	8.4	
SE	2.9	6.0	3.2	.7	.0		12.8	13.4		12.6	12.0	13.8	12.6	
S	2.8	6.3	4.0	.9	.1		14.1	14.1		13.7	13.3	14.4	15.0	
SW	2.8	3.1	2.1	.3	.0		8.2	11.8		9.3	7.5	8.7	9.1	
W	2.6	3.4	1.8	.3	.0		8.0	11.5		7.8	6.7	8.9	8.2	
NW	4.6	9.0	4.4	.6	.1		18.8	12.6		19.6	23.2	16.8	18.7	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	5.0						5.0	.0		4.9	5.3	5.6	4.2	
TOT OBS	756	1123	580	116	12	2587			12.1	713	490	710	674	
TOT PCT	29.2	43.4	22.4	4.5	.5		100.0			100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1862-1973

AREA 0036 POINT ARENA
36.3N 123.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	4.9	11.2	32.8	38.7	11.2	1.1	.0	12.0	100.0	713
0600Z	5.3	3.7	35.3	37.8	15.3	2.4	.0	13.3	100.0	490
1200Z	5.6	11.7	37.6	33.9	9.4	1.5	.1	11.3	100.0	710
1800Z	4.2	10.2	36.5	35.9	11.4	1.8	.0	12.1	100.0	674
TOT	129	250	920	944	300	43	1	12.1		2587
PCT	5.0	9.7	35.6	36.5	11.6	1.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.8	3.7	5.3	2.8		3.5
NE	1.9	.5	1.3	.9		3.8
E	1.3	.6	.7	1.3		4.5
SE	1.3	.8	3.0	7.0		6.5
S	1.5	1.1	2.7	8.4		6.6
SW	.8	.7	1.4	3.8		6.3
W	1.6	1.0	3.4	2.3		5.3
NW	9.9	3.8	5.1	3.8		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.9	1.0	.7	1.7		3.8
TOT OBS	346	148	267	357	1118	4.7
TOT PCT	30.9	13.2	23.9	31.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.5	.1	.3	1.4	2.4	1.0	.7	.1	.0	.1	15.2	
.0	.0	.2	.7	.4	.1	.1	.0	.0	.0	3.0	
.1	.0	.2	.1	.5	.3	.2	.1	.0	.1	2.3	
1.0	.1	.7	1.6	2.9	1.5	.7	.0	.0	.0	3.6	
1.1	.3	.3	2.6	3.9	1.6	.3	.0	.0	.1	3.5	
.4	.1	.2	1.0	1.8	.5	.1	.1	.0	.2	2.2	
.2	.0	.5	1.1	1.8	.9	.3	.0	.1	.0	3.5	
.7	.1	.6	1.3	2.2	1.1	.4	.0	.0	.1	15.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.1	.2	1.3	.5	.0	.0	.0	.0	3.9	
48	8	33	107	196	88	32	5	2	6	593	1118
4.3	.7	3.0	9.6	17.5	7.9	2.9	.4	.2	.5	53.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.7	.8	.8	.8	.8	.8	.8
>5000	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>3500	3.1	4.0	4.0	4.1	4.1	4.1	4.1	4.1
>2000	8.3	10.9	11.9	12.1	12.1	12.1	12.1	12.1
>1000	18.7	23.7	28.3	29.1	29.4	29.4	29.6	29.6
>600	23.3	33.3	37.4	38.4	38.8	38.8	39.0	39.0
>300	24.3	35.3	40.0	41.2	41.7	41.7	42.0	42.0
>150	24.3	35.8	40.6	42.0	42.4	42.4	42.7	42.7
>0	24.3	36.8	42.3	44.2	44.9	45.6	46.5	47.1
TOTAL	279	418	483	503	511	519	529	535

TOTAL NUMBER OF OBS: 1137

PCT FREQ NM <5/8: 52.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.2	8.4	11.1	7.9	5.2	6.4	6.1	7.0	24.1	3.4	1220

DECEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1862-1973

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.5	.2	.3	.3	.4	.2	.1	.4	.0	.2	2.7	
	TOT %	.5	.3	.3	.5	.6	.3	.2	.4	.0	.2	3.3	
1/2<1	PCP	.1	.0	.1	.3	.6	.1	.1	.1	.0	.0	1.4	
	NO PCP	.2	.2	.3	.2	.4	.2	.1	.3	.0	.0	2.3	
	TOT %	.3	.3	.5	.5	1.0	.4	.2	.4	.0	.0	3.6	
1<2	PCP	.2	.0	.1	.3	.6	.3	.2	.0	.0	.0	1.7	
	NO PCP	.3	.5	.3	.4	.6	.3	.2	.3	.0	.0	2.8	
	TOT %	.4	.5	.4	.8	1.1	.6	.4	.3	.0	.0	4.5	
2<5	PCP	.3	.1	.1	.8	.9	.4	.2	.2	.0	.1	3.0	
	NO PCP	.9	1.2	.9	1.0	1.1	.8	.6	1.0	.0	.2	7.7	
	TOT %	1.2	1.3	1.0	1.7	2.0	1.2	.9	1.2	.0	.3	10.7	
5<10	PCP	.1	.1	.2	.8	1.1	.8	.3	.6	.0	.0	4.1	
	NO PCP	4.6	1.5	1.2	2.7	3.3	2.1	2.2	3.6	.0	.9	22.1	
	TOT %	4.7	1.6	1.5	3.5	4.4	3.0	2.5	4.1	.0	.9	26.2	
10+	PCP	.1	.0	.1	.4	.2	.3	.4	.3	.0	.0	1.8	
	NO PCP	11.3	3.8	3.1	5.0	5.3	3.2	3.9	11.1	.0	3.4	49.9	
	TOT %	11.4	3.8	3.1	5.4	5.5	3.5	4.3	11.3	.0	3.4	51.7	
TOT OBS													2260
TOT PCT		18.5	7.7	6.8	12.3	14.7	9.0	8.4	17.8	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.1	.0	.1	.0	.0	.0	.4	.9	
	4-10	.3	.1	.1	.2	.3	.1	.2	.2	.0	.0	1.5	
	11-21	.2	.1	.0	.1	.2	.0	.0	.2	.0	.0	1.0	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.6	.2	.3	.5	.6	.3	.2	.4	.0	.4	3.5	
1/2<1	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	4-10	.1	.2	.4	.2	.2	.1	.1	.2	.0	.0	1.6	
	11-21	.2	.0	.1	.3	.7	.1	.1	.1	.0	.0	1.6	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.3	.3	.6	.6	1.0	.3	.2	.4	.0	.0	3.7	
1<2	0-3	.2	.1	.2	.1	.1	.0	.1	.2	.0	.1	1.1	
	4-10	.4	.3	.2	.4	.5	.4	.3	.3	.0	.0	2.8	
	11-21	.1	.2	.2	.4	.5	.2	.1	.1	.0	.0	1.9	
	22+	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.6	
	TOT %	.8	.6	.6	1.0	1.4	.7	.5	.7	.0	.1	6.3	
2<5	0-3	.1	.2	.1	.1	.2	.3	.1	.0	.0	.3	1.4	
	4-10	.7	.4	.5	.5	.8	.3	.4	.5	.0	.0	3.9	
	11-21	.3	.5	.3	.6	.7	.4	.3	.5	.0	.0	3.7	
	22+	.0	.1	.0	.5	.3	.2	.1	.1	.0	.0	1.3	
	TOT %	1.1	1.2	.9	1.8	2.0	1.1	.9	1.1	.0	.3	10.4	
5<10	0-3	.7	.2	.1	.3	.5	.6	.3	.6	.0	.9	3.7	
	4-10	1.7	.7	.6	1.1	1.1	.7	.9	1.5	.0	.0	8.2	
	11-21	1.5	.5	.6	1.1	1.4	1.0	.8	1.6	.0	.0	8.5	
	22+	.5	.1	.1	.7	1.1	.7	.4	.3	.0	.0	3.9	
	TOT %	4.3	1.5	1.4	3.3	4.1	2.7	2.3	3.9	.0	.9	24.3	
10+	0-3	.5	.3	.4	.3	.3	.7	.5	.6	.0	3.3	7.0	
	4-10	3.1	1.6	1.4	2.1	2.0	1.3	1.7	4.4	.0	.0	17.6	
	11-21	4.9	1.3	1.4	2.4	2.3	1.0	1.2	5.2	.0	.0	19.7	
	22+	2.9	.5	.1	.8	.6	.3	.5	1.8	.0	.0	7.4	
	TOT %	11.4	3.7	3.2	5.6	5.3	3.3	4.0	11.9	.0	3.3	51.7	
TOT OBS													2461
TOT PCT		18.5	7.5	6.9	12.6	14.4	8.4	8.1	18.5	.0	5.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1862-1973AREA 0036 POINT ARENA
38.3N 123.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 45.3	NM <5/8 ANY HGT	TOTAL DBS
00003	4.2	1.3	1.3	9.1	15.5	8.1	4.5	.6	.6	.0	45.3	54.7	309
06009	5.1	.3	2.3	9.3	15.4	6.1	1.6	.3	.0	.3	40.8	59.2	311
12015	3.9	.0	3.9	10.7	15.7	6.8	3.2	.7	.0	.4	45.4	54.6	280
18021	3.5	1.1	4.3	7.1	20.9	9.9	1.8	.0	.4	1.4	50.4	49.6	282
TOT	50	8	34	107	199	91	33	5	3	6	536	646	1182
PCT	4.2	.7	2.9	9.1	16.8	7.7	2.8	.4	.3	.5	45.3	54.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	3.0	4.5	7.8	12.2	26.5	46.0	695
06009	2.6	1.3	2.8	6.4	25.4	61.6	469
12015	5.7	4.2	6.3	10.2	24.3	49.3	686
18021	2.6	4.2	7.3	11.5	21.1	53.3	645
TOT	89	93	157	259	606	1291	2495
PCT	3.6	3.7	6.3	10.4	24.3	51.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	4.4	7.7	21.1	26.8	52.0	298
06009	5.3	8.3	22.7	19.7	57.7	300
12015	4.1	8.6	23.9	25.0	51.1	268
18021	3.7	10.7	22.1	31.7	46.1	271
TOT	50	100	235	292	590	1137
PCT	4.4	8.8	22.4	25.7	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.1	.0	.0	.0	.2	.0	.0	.0	4	.2
65/69	.0	.1	.2	.3	.3	.2	.1	.1	23	1.3
60/64	.1	.1	.5	.7	1.1	1.7	1.5	.6	111	6.4
55/59	.1	.2	.3	1.1	3.0	7.2	12.7	9.0	587	33.6
50/54	.1	.0	.5	1.7	5.9	7.1	17.0	9.4	728	41.6
45/49	.0	.1	.2	.1	1.3	3.4	3.8	3.4	215	12.3
40/44	.0	.0	.1	.3	.3	.7	.9	2.1	78	4.5
35/39	.0	.0	.0	.0	.0	.1	.1	.0	2	.1
TOTAL	4	7	32	76	213	355	631	430	1748	100.0
PCT	.2	.4	1.8	4.3	12.2	20.3	36.1	24.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
65/69	.4	.1	.1	.2	.0	.1	.0	.2	.0	.3
60/64	1.0	.6	.4	.8	1.2	.7	.4	.9	.0	.3
55/59	5.1	1.8	2.1	4.1	6.5	4.0	3.5	5.4	.0	1.1
50/54	9.6	3.9	2.7	5.2	4.2	3.2	3.3	8.5	.0	1.1
45/49	2.2	1.5	1.4	1.4	1.0	.9	.9	2.6	.0	.4
40/44	1.0	.6	.8	.5	.3	.2	.2	.6	.0	.3
35/39	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	19.5	8.5	7.5	12.1	13.1	9.1	8.4	18.2	.0	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	72	66	63	55	47	43	38	54.8	721
06009	66	61	59	54	48	45	42	53.6	494
12015	64	61	58	53	49	40	40	52.4	718
18021	70	67	61	54	46	41	37	54.3	675
TOT	72	65	60	54	46	41	37	53.8	2608

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.2	10.5	16.3	21.8	31.5	19.6	78	514
06009	.0	2.7	7.7	22.1	36.9	28.3	84	298
12015	.2	2.9	7.8	15.7	42.6	31.4	64	472
18021	.4	9.1	14.6	22.4	32.3	21.3	79	474
TOT	4	116	213	358	632	435	31	1758

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1862-1973

DECEMBER

TABLE 17

AREA 0036 POINT ARENA
38.5N 123.9W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.0	7	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.4	.5	.0	19	.0	1.0
9/10	.0	.0	.0	.0	.2	.3	.3	.1	.0	17	.0	.9
7/8	.0	.0	.0	.0	.2	.8	.4	.1	.0	27	.0	1.4
6	.0	.0	.0	.1	.2	.6	.4	.0	.0	24	.2	1.1
5	.0	.0	.0	.2	.5	2.1	.4	.0	.0	60	.2	3.0
4	.0	.0	.0	.1	3.1	1.9	.6	.0	.0	104	.6	5.0
3	.0	.0	.0	.2	1.2	1.8	.3	.0	.0	64	.2	3.2
2	.0	.0	.1	.4	3.3	2.7	.3	.0	.0	131	.3	6.7
1	.0	.0	.3	.5	3.1	2.7	.2	.0	.0	126	.7	6.1
0	.0	.0	.3	1.3	8.5	3.2	.3	.1	.0	253	1.7	11.8
-1	.0	.0	.3	1.3	7.2	.9	.0	.0	.0	181	.8	8.9
-2	.0	.0	.1	4.0	6.4	1.7	.1	.0	.0	228	.6	11.6
-3	.0	.1	.4	3.4	4.8	.4	.1	.0	.0	170	.8	8.4
-4	.0	.0	1.0	3.8	2.7	.2	.0	.0	.0	144	.6	7.1
-5	.0	.3	.9	2.9	1.5	.3	.1	.0	.0	111	.3	5.6
-6	.1	.1	.9	1.9	.7	.0	.0	.0	.0	69	.1	3.6
-7/-8	.0	.4	1.3	1.3	.9	.1	.0	.0	.0	75	.3	3.8
-9/-10	.0	.6	.4	.4	.3	.1	.0	.0	.0	34	.2	1.6
-11/-13	.1	.2	.1	.2	.0	.0	.0	.0	.0	14	.1	.7
-14/-16	.1	.0	.0	.2	.0	.0	.0	.0	.0	4	.0	.2
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6	31	116	412	840	372	70	17	2	1866	140	1726
PCT	.3	1.7	6.2	22.1	45.0	19.9	3.8	.9	.1	100.0	7.5	92.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.2	.0	.0	.0	.0	1.4	.2	.3	.0	.0	.0	.0	.5
1-2	.0	2.6	1.4	.0	.0	.0	4.0	.2	1.4	.4	.0	.0	.0	1.9
3-4	.0	1.4	2.1	.2	.0	.0	3.7	.0	.3	.2	.2	.0	.0	.7
5-6	.0	.0	2.2	.3	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	1.6	.3	.0	2.8	.0	.2	.2	.0	.0	.0	.3
8-9	.0	.0	.4	.9	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.2	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	7.1	3.9	1.3	.0	17.7	.4	2.2	.8	.7	.2	.0	4.3

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.4	.0	.0	.0	.0	.6	.2	.7	.2	.0	.0	.0	1.1
1-2	.2	1.6	.7	.0	.0	.0	2.4	.0	1.2	1.2	.0	.0	.0	2.5
3-4	.0	.3	.1	.0	.0	.0	.5	.0	1.4	2.4	.2	.0	.0	4.0
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	2.3	.4	.3	.0	3.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.2	.0	1.2	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	1.3	.1	.0	.0	4.2	.2	3.3	6.1	2.1	.7	.0	12.6

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	1.2	.0	.0	.0	.0	1.3	.2	.6	.0	.0	.0	.0	.8	
1-2	.0	3.1	1.2	.0	.0	.0	4.3	.2	.8	1.0	.0	.0	.0	2.0	
3-4	.1	1.3	1.5	.4	.0	.0	3.3	.5	.7	.1	.0	.0	.0	1.4	
5-6	.0	.5	1.7	.6	.0	.0	2.7	.0	.2	.4	.2	.0	.0	.8	
7	.0	.0	.5	1.2	.0	.0	1.6	.0	.0	.5	.7	.0	.0	1.2	
8-9	.0	.3	.3	1.0	.0	.0	1.7	.0	.0	.2	.1	.0	.0	.2	
10-11	.0	.0	.3	.2	.1	.0	.7	.0	.0	.7	.2	.0	.0	.9	
12	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.2	.2	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.4	5.8	3.7	1.2	.0	17.2	.4	2.1	2.9	1.8	.2	.0	7.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.3	1.4	.0	.0	.0	.0	1.7	
1-2	.0	1.2	.6	.0	.0	.0	1.8	.0	3.6	1.7	.0	.0	.0	5.3	
3-4	.0	1.4	.6	.2	.0	.0	2.1	.0	.9	3.8	.3	.0	.0	5.1	
5-6	.0	.2	.4	.6	.0	.0	1.2	.0	.5	2.0	.7	.0	.0	3.2	
7	.0	.7	.5	.3	.0	.0	1.6	.0	.3	1.3	.6	.0	.0	2.2	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6	.4	.0	.0	1.0	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.9	2.3	1.4	.0	.0	7.7	.3	6.7	10.0	2.5	.3	.0	19.9	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	6.3	.2	.0	.0	.0	16.9	
1-2	.5	15.3	8.2	.0	.0	.0	24.2	
3-4	.2	7.4	11.5	1.6	.0	.0	20.7	
5-6	.0	1.3	9.5	3.0	.3	.0	14.1	
7	.0	1.3	3.9	5.6	.3	.0	11.2	
8-9	.0	.3	1.8	3.0	.2	.0	5.3	
10-11	.2	.0	.7	1.8	1.0	.0	3.6	
12	.0	.0	.3	.5	.7	.0	1.5	
13-16	.0	.0	.2	.5	1.0	.0	1.6	
17-19	.0	.2	.0	.0	.2	.0	.3	
20-22	.0	.0	.2	.2	.2	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	32.2	36.5	16.1	3.8	.0	100.0	608

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	14.0	9.6	5.7	2.9	1.0	.9	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	395	4
6-7	.1	1.0	3.2	6.1	6.1	3.6	1.8	1.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	261	7
8-9	.0	.4	1.6	3.1	3.5	2.3	2.1	1.5	2.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	189	8
10-11	.0	.4	.5	.7	1.7	2.4	.9	1.2	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	97	9
12-13	.0	.0	1.2	.5	.4	.6	.5	.1	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	42	8
>13	.0	.0	.0	.3	.3	.2	.4	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	18	10
INDET	2.7	1.5	.9	.6	.8	.7	.3	.5	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	88	4
TOTAL	43	188	185	186	167	117	75	56	51	11	9	2	0	0	0	0	0	0	0	1090	6
PCT	3.9	17.2	17.0	17.1	15.3	10.7	6.9	5.1	4.7	1.0	.8	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

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AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.8	.4	1.3	.0	*	.0	*	2.6	.5	.1	6.8	.3	4.8	*	84.9
NE	1.8	.2	1.4	.0	.0	.0	.1	3.3	.6	.1	8.0	.4	9.3	.0	78.3
E	4.6	.1	2.5	.0	.0	.0	.0	6.3	.7	.0	12.4	1.2	12.3	.1	67.0
SE	8.7	1.3	5.0	.0	.0	.0	*	13.9	1.8	.1	14.4	.4	8.2	.1	61.2
S	8.3	1.6	3.0	.0	.0	.0	.1	14.0	2.0	.1	11.2	.4	8.3	.0	64.0
SW	5.0	1.7	3.4	.0	.0	.0	.1	9.4	1.3	*	6.6	.2	11.3	.0	71.1
W	2.3	.8	2.0	.0	.0	.0	.1	4.9	1.1	.2	8.9	.4	9.6	.1	76.9
NW	1.1	.6	1.6	.0	.0	.0	*	3.2	.8	*	8.7	.4	5.6	*	81.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.2	1.4	.0	.0	.0	.1	2.9	.6	.2	18.9	.4	9.5	.0	67.6
TOT PCT	3.1	.8	2.4	.0	*	.0	*	6.0	1.0	.1	8.7	.4	7.7	*	76.2
TOT OBS:	35090														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
00003	3.0	.7	2.2	.0	.0	.0	*	5.6	.7	.1	6.9	.4	8.1	.1	78.3	
06009	2.9	.9	2.9	.0	.0	.0	.0	6.3	1.5	.2	8.3	.5	2.2	.1	81.0	
12015	3.4	.9	2.7	.0	.0	.0	.1	6.8	1.1	.1	10.6	.3	8.2	*	72.8	
18021	3.1	.7	1.9	.0	*	.0	*	5.3	.8	*	9.3	.3	10.0	*	74.1	
TOT PCT TOT OBS: 35605	3.1	.8	2.4	.0	*	.0	*	5.9	1.0	.1	8.8	.3	7.6	*	76.2	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	5.1	8.7	5.2	.8	*		20.8	16.6	20.0	12.7	27.5	25.1	26.5	15.7	27.5	14.1	
NE	.7	1.6	.9	.2	*	*		3.5	9.6	2.4	3.6	3.3	2.7	3.2	5.0	3.3	4.2	
E	.8	1.7	.8	.1	*	.0		3.2	7.5	2.6	3.2	1.6	2.3	2.3	6.0	2.9	4.3	
SE	1.0	2.9	2.0	.6	.1	*		6.7	9.8	5.9	5.8	5.8	5.8	6.9	7.9	7.7	7.1	
S	1.3	3.7	2.8	.8	.2	*		8.8	10.3	8.5	8.1	8.5	7.6	8.2	9.8	9.0	9.7	
SW	1.8	5.0	2.8	.5	*	*		10.1	9.2	10.8	16.0	4.8	5.9	4.7	14.6	5.5	15.8	
W	1.9	6.1	4.2	.7	*	*		13.0	9.9	14.8	21.8	7.3	7.6	6.9	15.6	7.7	19.0	
NW	1.6	8.6	12.7	5.9	.7	*		29.4	14.9	31.6	25.3	36.2	38.7	34.8	20.7	31.8	22.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.4							4.4	.0	3.3	3.4	5.0	4.0	6.5	4.7	4.6	3.5	
TOT OBS							39024		12.5	7145	3884	4806	1777	5484	5191	4928	5809	
TOT PCT	14.5	34.8	34.7	13.9	2.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.0	7.6	7.6	2.4	.1		20.8	16.6	17.4	16.8	21.2	20.2
NE	1.5	1.5	.4	.1	*		3.5	9.6	2.8	3.2	4.0	3.8
E	1.7	1.3	.3	*	*		3.3	7.5	2.8	1.8	4.1	3.8
SE	2.4	2.8	1.1	.3	*		6.7	9.8	5.9	5.8	7.5	7.4
S	3.0	3.8	1.5	.4	*		8.8	10.3	8.3	8.2	9.0	9.4
SW	4.2	4.7	1.0	.2	*		10.1	9.2	12.7	5.2	9.5	11.1
W	4.8	6.2	1.8	.2	*		13.0	9.9	17.3	7.5	11.1	13.7
NW	4.8	12.4	9.6	2.5	.1		29.4	14.9	29.4	36.9	27.9	26.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	3.4	4.7	5.6	4.1
TOT OBS						39024		12.5	11029	6583	10675	10737
TOT PCT	29.9	40.3	23.4	6.0	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1957-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47					
00003	3.4	9.2	34.1	36.9	14.0	2.2		.2	13.0	100.0	11029
06009	4.7	4.5	29.4	39.4	18.9	3.0		.1	14.7	100.0	6583
12015	5.6	12.7	36.8	31.1	12.3	1.4		.1	11.4	100.0	10675
18021	4.1	11.8	36.8	33.2	12.5	1.6		.1	11.9	100.0	10737
TOT									12.5		39024
PCT	4.4	10.1	34.8	34.7	13.9	2.0		.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	12.4	3.3	5.6	6.4		3.7
NE	1.2	.4	.6	.8		4.2
E	.6	.2	.4	.9		5.3
SE	.7	.5	1.2	4.0		6.5
S	.9	.6	1.7	4.9		6.4
SW	.9	.6	1.3	2.3		5.7
W	2.1	1.0	2.1	2.6		5.0
NW	13.9	4.4	6.5	8.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.6	.4	.8	2.0		5.0
TOT DBS					16987	4.4
TOT PCT	36.3	11.3	20.1	32.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL DBS
.9	.1	.7	2.4	3.5	2.0	.5	.1	.1	.1	17.2	
.1	.1	.1	.3	.4	.2	.1	.1	.1	.1	1.9	
.1	.1	.1	.2	.3	.2	.1	.1	.1	.1	1.0	
.7	.1	.3	.9	1.4	.8	.2	.1	.1	.1	1.8	
.8	.2	.4	1.2	1.9	.9	.2	.1	.1	.1	2.2	
.3	.1	.3	.6	1.0	.6	.1	.1	.1	.1	1.9	
.4	.1	.4	.7	1.2	.8	.2	.1	.1	.1	3.9	
1.6	.2	.9	2.4	4.0	2.5	.6	.1	.1	.2	22.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.1	.3	.6	.5	.5	.1	.1	.1	.1	2.5	
5.7	.7	3.2	9.0	14.3	8.5	2.0	.6	.4	.7	16987	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.2	1.6	1.6	1.7	1.7	1.7	1.7	1.7
= OR >3500	2.6	3.5	3.6	3.7	3.7	3.7	3.7	3.7
= OR >2000	8.6	11.6	12.1	12.2	12.2	12.2	12.2	12.2
= OR >1000	17.4	24.4	26.0	26.3	26.4	26.4	26.4	26.4
= OR >600	22.2	32.2	34.5	35.0	35.2	35.2	35.3	35.3
= OR >300	23.2	34.5	37.4	38.0	38.3	38.4	38.5	38.5
= OR >150	23.3	34.9	37.9	38.6	38.9	39.1	39.2	39.2
= OR >0	23.5	35.7	39.4	40.6	41.6	42.9	44.4	44.9

TOTAL NUMBER OF DBS: 17142

PCT FREQ NM <5/8: 55.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
25.6	8.2	9.5	6.4	4.9	4.5	6.0	6.4	23.3	18174

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

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TABLE 8

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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.5	.1	.2	.3	.4	.2	.3	.9	.0	.4	3.3	
	TOT %	.5	.1	.2	.3	.4	.2	.3	1.0	.0	.4	3.6	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.3	.1	.2	.2	.3	.2	.2	.4	.0	.1	1.9	
	TOT %	.3	.1	.2	.2	.4	.3	.2	.5	.0	.1	2.3	
1<2	PCP	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.6	
	NO PCP	.3	.1	.1	.1	.3	.4	.4	.5	.0	.1	2.3	
	TOT %	.3	.1	.2	.3	.5	.5	.4	.5	.0	.1	2.9	
2<5	PCP	.1	.0	.1	.3	.4	.2	.1	.1	.0	.0	1.3	
	NO PCP	.8	.3	.3	.5	.6	.9	1.1	1.3	.0	.3	6.2	
	TOT %	.9	.3	.4	.8	1.0	1.1	1.3	1.5	.0	.3	7.5	
5<10	PCP	.2	.1	.1	.4	.6	.3	.2	.4	.0	.0	2.3	
	NO PCP	4.8	.7	.9	1.6	2.4	3.8	4.9	6.7	.0	1.0	26.7	
	TOT %	5.1	.8	.9	2.0	3.0	4.1	5.1	7.1	.0	1.0	29.0	
10+	PCP	.1	.0	.0	.2	.2	.2	.1	.1	.0	.0	1.0	
	NO PCP	13.5	2.1	1.4	2.8	3.5	4.2	6.2	17.8	.0	2.3	33.8	
	TOT %	13.6	2.1	1.5	3.0	3.7	4.4	6.3	17.9	.0	2.3	34.8	
TOT OBS													
TOT PCT		20.7	3.5	3.3	6.4	9.0	10.6	13.6	28.4	.0	4.3	100.0	39040

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.1	.1	.1	.1	.1	.1	.0	.5	1.1	
	11-21	.2	.0	.1	.2	.2	.1	.2	.3	.0	.0	1.6	
	22+	.1	.0	.0	.1	.1	.0	.1	.4	.0	.0	.9	
	TOT %	.6	.1	.2	.4	.4	.3	.4	1.0	.0	.5	3.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.5	
	11-21	.1	.0	.1	.1	.2	.1	.1	.2	.0	.0	1.0	
	22+	.0	.0	.0	.1	.1	.1	.1	.2	.0	.0	.7	
	TOT %	.3	.1	.2	.3	.4	.3	.3	.5	.0	.1	2.4	
1<2	0-3	.1	.0	.0	.0	.1	.1	.1	.1	.0	.2	.7	
	4-10	.2	.1	.1	.1	.2	.3	.3	.2	.0	.0	1.4	
	11-21	.1	.0	.1	.2	.2	.1	.2	.2	.0	.0	1.0	
	22+	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.3	
	TOT %	.4	.2	.2	.3	.5	.5	.5	.6	.0	.2	3.4	
2<5	0-3	.1	.1	.1	.1	.2	.2	.2	.2	.0	.3	1.4	
	4-10	.4	.1	.2	.3	.4	.5	.7	.6	.0	.0	3.2	
	11-21	.4	.1	.1	.2	.3	.3	.0	.0	.0	.0	2.3	
	22+	.1	.0	.0	.2	.2	.1	.0	.0	.0	.0	.8	
	TOT %	.9	.3	.4	.8	1.0	1.1	1.2	1.6	.0	.3	7.7	
5<10	0-3	.2	.1	.2	.3	.4	.5	.6	.4	.0	1.0	3.8	
	4-10	1.2	.3	.5	.8	1.1	1.9	2.1	2.0	.0	.0	9.9	
	11-21	2.0	.2	.2	.5	.9	1.3	1.8	2.9	.0	.0	9.9	
	22+	1.5	.1	.0	.3	.4	.2	.3	1.7	.0	.0	6.5	
	TOT %	5.0	.8	.9	1.9	2.8	3.9	4.8	7.1	.0	1.0	28.2	
10+	0-3	.5	.4	.3	.4	.5	1.0	.9	.7	.0	2.3	7.0	
	4-10	2.9	1.0	.8	1.4	1.7	2.1	2.9	4.8	.0	.0	17.8	
	11-21	3.9	.3	.4	1.0	1.2	1.0	1.9	8.3	.0	.0	20.0	
	22+	4.3	.2	.0	.2	.3	.1	.4	4.4	.0	.0	9.9	
	TOT %	13.6	2.1	1.5	3.0	3.7	4.2	6.0	18.2	.0	2.3	54.5	
TOT OBS													
TOT PCT		20.7	3.5	3.4	6.7	8.9	10.3	13.3	28.9	.0	4.4	100.0	37080

PERIOD: (PRIMARY) 1934-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	4.7	.9	2.9	8.7	13.4	8.2	2.2	.3	.3	.7	42.7	57.3	4588
06009	5.0	.6	2.5	6.9	12.5	7.2	1.8	.3	.4	.6	38.0	62.0	4411
12015	6.7	.6	3.4	9.1	14.4	8.1	2.1	.3	.3	.6	45.9	54.1	4185
18021	6.0	.6	3.9	9.9	15.3	9.3	1.7	.7	.4	.8	48.8	51.2	4467
TOT PCT	5.6	.7	3.2	8.7	13.9	8.3	2.0	.5	.4	.7	43.8	56.2	17651 100.0

TABLE 11

PERCENT FREQUENCY VSEY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	3.0	2.1	3.3	8.4	32.0	50.9	10656
06009	3.8	1.5	1.7	4.8	23.2	65.0	6956
12015	5.0	3.2	4.4	8.1	28.4	51.0	10233
18021	3.5	2.5	3.5	8.3	27.0	55.2	10940
TOT PCT	3.8	2.4	3.4	7.7	28.2	54.5	37585 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSEY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	4.8	9.3	21.2	24.1	54.7	4424
06009	5.0	8.7	18.5	21.3	60.2	4326
12015	6.9	11.3	23.2	23.0	51.8	4063
18021	6.2	11.5	23.7	27.4	48.7	4329
TOT PCT	5.7	10.2	21.6	24.4	53.9	17142 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
80/84	.0	.1	.1	.1	.0	.0	.0	.0	.3	.3
75/79	.0	.1	.1	.3	.1	.1	.0	.0	.9	.9
70/74	.1	.1	.2	.5	.6	.4	.1	.2	2.2	2.2
65/69	.1	.2	.3	.6	1.1	1.8	1.2	.7	5.8	5.8
60/64	.1	.1	.4	.7	2.3	4.7	6.4	3.1	17.8	17.8
55/59	.0	.1	.3	.7	2.2	7.0	14.6	10.1	35.1	35.1
50/54	.0	.0	.2	.6	2.8	4.7	11.6	9.1	29.1	29.1
45/49	.0	.0	.1	.2	.9	1.7	2.1	2.3	7.3	7.3
40/44	.0	.0	.0	.1	.2	.4	.5	.5	1.3	1.3
35/39	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2
TOTAL PCT	.3	.7	1.7	3.9	10.1	20.6	38.6	26.1	27953	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
.0	.0	.0	.0	.1	.3	.2	.1	.0	.0
.1	.1	.1	.1	.2	.6	.6	.3	.0	.1
.8	.2	.2	.3	.5	1.3	1.4	1.0	.0	.2
3.6	.6	.5	.8	1.5	2.6	3.5	4.3	.0	.6
7.0	1.1	1.0	2.3	3.5	4.0	5.3	9.8	.0	1.0
6.6	1.1	1.0	2.1	2.5	2.3	3.1	9.3	.0	.9
1.6	.5	.5	.5	.5	.4	.7	2.1	.0	.4
.2	.1	.3	.2	.1	.1	.1	.2	.0	.1
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20.0	3.7	3.6	6.4	8.9	11.8	15.0	27.1	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL DBS
00003	93	74	68	57	51	48	38	58.1	11092
06009	79	63	60	55	50	47	36	54.9	6650
12015	89	66	61	54	48	45	35	54.7	10791
18021	90	74	68	57	50	47	37	57.9	10793
TOT	93	72	65	56	50	46	35	56.6	39326

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.5	9.5	13.4	23.7	33.6	19.4	78	8418		
06009	.0	1.1	5.2	18.0	43.1	32.7	86	4279		
12015	.0	2.5	6.1	14.8	40.9	35.6	86	7606		
18021	.3	9.4	13.2	24.3	32.1	20.7	79	7945		
TOT	66	1737	2785	5805	10436	7419	82	28248		

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

ANNUAL

AREA 0036 POINT ARENA
38.5N 123.9W

TABLE 17

PCT PRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	43	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	155	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.1	.3	.3	.3	.1	.1	.0	.0	.0	334	.0	1.1
9/10	.0	.0	.0	.0	.0	.1	.3	.5	.3	.2	.1	.0	.0	.0	.0	463	.1	1.5
7/8	.0	.0	.0	.0	.0	.3	1.1	.9	.4	.2	.1	.0	.0	.0	.0	904	.2	2.8
6	.0	.0	.0	.0	.1	.5	.9	.6	.2	.1	.0	.0	.0	.0	.0	690	.1	2.2
5	.0	.0	.0	.0	.1	.8	1.4	.8	.3	.1	.0	.0	.0	.0	.0	1046	.3	3.2
4	.0	.0	.0	.0	.3	1.8	1.9	1.0	.3	.1	.0	.0	.0	.0	.0	1644	.5	5.1
3	.0	.0	.0	.0	.5	2.0	1.9	.8	.3	.1	.0	.0	.0	.0	.0	1659	.5	5.1
2	.0	.0	.0	.1	1.2	3.4	2.7	1.2	.4	.1	.0	.0	.0	.0	.0	2640	1.0	8.2
1	.0	.0	.0	.1	1.4	3.7	2.3	1.1	.3	.1	.0	.0	.0	.0	.0	2540	1.0	7.9
0	.0	.0	.0	.2	2.9	5.3	3.1	1.6	.3	.0	.0	.0	.0	.0	.0	3760	1.4	12.0
-1	.0	.0	.0	.2	2.5	3.8	2.0	.9	.2	.0	.0	.0	.0	.0	.0	2667	.9	8.7
-2	.0	.0	.0	.6	3.3	3.8	2.1	.9	.1	.0	.0	.0	.0	.0	.0	2931	1.0	9.7
-3	.0	.0	.0	.5	2.7	2.1	1.5	.5	.1	.0	.0	.0	.0	.0	.0	2036	.6	6.8
-4	.0	.0	.0	.8	2.0	1.6	1.1	.3	.0	.0	.0	.0	.0	.0	.0	1608	.5	5.4
-5	.0	.0	.1	.7	1.3	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	1109	.4	3.7
-6	.0	.0	.1	.5	.8	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	710	.2	2.3
-7/-8	.0	.0	.1	.3	.6	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	777	.3	2.5
-9/-10	.0	.0	.2	.2	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	336	.1	1.1
-11/-13	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	163	.1	.5
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL																28277		
PCT	.0	.2	.7	4.9	20.1	31.7	24.3	11.9	3.9	1.3	.5	.3	.1	.0	.0	100.0	9.2	90.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT PRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGF	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.1	.0	.0	.0	1.4	.0	.4	.0	.0	.0	.0	.4
1-2	.1	2.2	1.6	.0	.0	.0	3.9	.1	.7	.3	.0	.0	.0	1.1
3-4	.0	1.4	4.0	.8	.0	.0	6.2	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.3	3.0	1.7	.1	.0	5.2	.0	.1	.2	.1	.0	.0	.3
7	.0	.1	1.9	1.9	.2	.0	4.2	.0	.0	.1	.1	.0	.0	.3
8-9	.0	.1	.6	1.3	.3	.0	2.5	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.8	.2	.0	1.3	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.1	.4	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.2	11.5	7.6	1.4	.0	26.2	.1	1.4	.8	.3	.1	.0	2.8

MGF	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.2	.4	.0	.0	.0	.0	.9
1-2	.1	.5	.2	.0	.0	.0	.8	.1	1.0	.6	.0	.0	.0	1.7
3-4	.0	.3	.2	.1	.0	.0	.3	.0	.6	1.0	.1	.0	.0	1.7
5-6	.0	.0	.2	.0	.0	.0	.3	.0	.1	.7	.2	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	.7	.1	.0	.0	2.0	.3	2.3	2.8	1.0	.2	.0	6.6

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0036 POINT ARENA
38.5N 123.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.4	.0	.0	.0	.0	.6	
1-2	.1	1.5	.8	.0	.0	.0	2.3	.1	.8	.2	.0	.0	.0	1.1	
3-4	.1	.6	1.0	.1	.0	.0	1.8	.1	.5	.4	.0	.0	.0	1.0	
5-6	.0	.2	.9	.2	.0	.0	1.4	.0	.2	.4	.1	.0	.0	.7	
7	.0	.0	.4	.4	.0	.0	.9	.0	.1	.2	.2	.0	.0	.5	
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	3.3	1.2	.2	.0	8.3	.2	2.0	1.4	.5	.1	.0	4.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	.9	.3	1.7	.1	.0	.0	.0	2.1	
1-2	.1	1.3	.5	.0	.0	.0	1.8	.2	3.8	2.6	.0	.0	.0	6.7	
3-4	.1	.9	.9	.1	.0	.0	1.9	.1	2.3	5.9	1.2	.0	.0	9.5	
5-6	.0	.2	.6	.1	.0	.0	.9	.0	.6	4.4	1.7	.1	.0	6.8	
7	.0	.1	.3	.1	.0	.0	.5	.0	.3	2.5	1.9	.2	.0	4.9	
8-9	.0	.0	.1	.0	.0	.0	.2	.0	.1	1.2	1.6	.2	.0	3.0	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.5	1.2	.1	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.2	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.1	2.5	.4	.1	.0	6.5	.6	8.8	17.7	6.5	1.1	.0	36.8	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	5.9	.3	.0	.0	.0	14.2	
1-2	1.0	11.9	6.7	.0	.0	.0	19.5	
3-4	.3	6.7	13.5	2.4	.0	.0	23.0	
5-6	.0	1.7	10.3	4.1	.3	.0	16.5	
7	.0	.7	5.8	4.9	.4	.0	11.9	
8-9	.0	.2	2.3	3.7	.5	.0	6.7	
10-11	.0	.1	1.0	2.3	.5	.0	3.9	
12	.0	.0	.5	1.2	.4	.0	2.0	
13-16	.0	.0	.1	.9	.6	.0	1.6	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	27.2	40.6	19.7	3.0	.1	100.0	8745

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	8.4	11.2	6.3	3.5	1.8	.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5518	4
6-7	.0	1.2	5.3	7.2	5.5	4.0	2.3	1.1	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4527	6
8-9	.0	.0	2.1	3.1	3.9	2.8	2.1	1.2	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	2794	8
10-11	.0	.0	.9	.9	1.4	1.4	1.0	.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1243	8
12-13	.0	.0	.7	.4	.4	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	509	8
>13	.0	.0	.0	.2	.2	.2	.3	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	233	11
INDEX	2.8	.7	1.1	.8	.8	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1184	4
TOTAL PCT	4.4	11.5	21.5	19.0	15.7	10.9	7.3	4.0	4.0	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	16008	6

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

AREA 0036 POINT ARENA
36.5N 123.9W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.0	.2	.0	46	.1
69/70	.0	.0	.0	.0	.0	.2	.8	3.0	3.8	.2	.2	.0	251	.8
67/68	.1	.0	.0	.0	.1	.9	2.9	5.7	4.9	1.2	.2	.1	498	1.0
65/66	.1	.1	.0	.0	1.3	4.0	4.2	6.3	6.1	3.8	.7	.2	812	2.3
63/64	.3	.2	.4	.7	.9	3.9	8.6	14.7	13.1	12.0	3.2	.8	1744	3.4
61/62	.5	.3	1.2	.5	2.7	5.8	14.3	16.9	14.0	14.0	6.7	2.0	2340	7.3
59/60	1.3	1.0	2.9	1.6	6.9	9.3	16.2	12.6	13.5	19.1	14.3	6.4	2984	9.3
57/58	6.0	4.2	6.3	3.0	12.8	16.9	13.4	10.4	13.3	19.7	26.1	15.7	4055	12.7
55/56	20.8	15.0	18.7	16.4	19.2	16.7	13.2	10.9	13.6	13.8	22.4	30.3	5466	17.1
53/54	28.9	25.2	27.4	26.3	21.2	18.1	11.6	10.1	9.5	9.0	18.8	21.1	5748	17.9
51/52	29.2	25.3	25.1	26.5	17.1	13.1	8.8	6.2	5.1	5.6	5.8	16.4	4533	14.1
49/50	12.1	20.7	13.5	17.2	12.7	10.3	5.0	2.4	1.3	1.3	1.2	4.3	2628	8.2
47/48	2.3	6.4	3.2	3.7	4.3	1.9	.8	.4	.1	.0	.3	1.2	622	1.9
45/46	5.0	1.4	.8	.7	.8	.1	.0	.0	.0	.0	.0	.0	248	.8
43/44	.3	.1	.0	.5	.1	.0	.1	.0	.0	.0	.0	.0	32	.1
41/42	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
39/40	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	10	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1968	2407	2172	2779	2697	3112	3541	3381	2805	2391	2594	2190	32037	100.0
MEAN	52.9	52.3	53.2	52.7	54.1	55.7	57.9	59.8	59.7	58.8	56.7	54.8	55.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

HR	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1020	1020	1019	1018	1019	1020	1020	1020	1020	2127
FEB	1020	1019	1019	1019	1018	1020	1020	1020	1020	2721
MAR	1019	1017	1019	1018	1018	1019	1020	1019	1019	2792
APR	1018	1016	1019	1017	1018	1016	1019	1017	1018	3393
MAY	1017	1016	1018	1017	1018	1016	1019	1017	1017	2894
JUN	1016	1013	1016	1015	1015	1014	1017	1015	1015	3313
JUL	1016	1013	1016	1016	1016	1015	1017	1016	1016	3759
AUG	1015	1013	1016	1015	1015	1014	1017	1015	1015	3686
SEP	1015	1014	1015	1014	1015	1015	1016	1015	1015	2867
OCT	1017	1016	1017	1016	1017	1017	1018	1017	1017	2459
NOV	1018	1019	1018	1020	1019	1021	1020	1020	1019	2684
DEC	1019	1018	1020	1018	1019	1019	1020	1019	1019	2271
ANN	1018	1016	1018	1017	1017	1017	1019	1018	1017	34966
OBS	6634	3223	4601	1124	4796	4456	4911	5019		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	992	1000	1007	1016	1021	1024	1029	1032	1036
FEB	988	998	1007	1016	1020	1024	1029	1032	1036
MAR	991	1002	1009	1016	1019	1023	1028	1031	1037
APR	994	1002	1009	1015	1018	1021	1026	1029	1033
MAY	993	1004	1010	1014	1017	1020	1025	1028	1032
JUN	992	1003	1009	1013	1015	1018	1022	1024	1032
JUL	999	1006	1011	1014	1016	1018	1021	1023	1031
AUG	1001	1006	1009	1013	1015	1017	1020	1023	1027
SEP	1001	1006	1009	1013	1015	1017	1021	1025	1028
OCT	998	1003	1010	1015	1017	1020	1024	1027	1032
NOV	998	1003	1010	1016	1020	1023	1027	1030	1034
DEC	996	1002	1007	1015	1020	1024	1028	1032	1036

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

JANUARY

AREA 0037 EUREKA
40.6N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.8	1.4	2.3	.0	.3	.0	.3	3.0	1.6	.0	3.1	.2	.3	.0	87.8
NE	2.5	.0	1.9	.0	.0	.0	.0	4.3	.3	.0	6.2	.3	1.2	.0	87.6
E	11.8	.0	2.0	.0	.0	.0	.0	13.7	3.2	.0	12.4	.0	3.2	.0	83.4
SE	26.9	1.8	9.7	.0	.0	.0	.0	33.4	4.6	.0	3.6	.0	2.3	.0	34.1
S	26.0	1.7	11.6	.0	.0	.0	.0	36.9	3.6	.0	4.1	.6	2.1	.0	32.7
SW	9.2	5.5	4.7	.0	.0	.0	.0	18.3	7.4	1.1	5.0	.0	1.1	.0	68.1
W	2.1	6.5	2.4	.0	.0	.0	1.2	12.2	9.2	.0	3.9	.0	.0	.0	72.7
NW	1.0	3.7	.4	.0	.0	.0	.8	3.9	2.2	.0	2.9	.8	.8	.0	87.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	3.0	.0	.0	.0	.0	.0	6.1	3.0	.0	51.3	.0	6.1	.0	33.3
TOT PCT	11.8	2.3	3.6	.0	.1	.0	.2	18.9	3.5	.1	3.9	.3	1.4	.0	69.9
TOT OBS:	1313														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000Z	11.0	2.6	3.8	.0	.0	.0	.0	16.8	3.2	.0	6.1	.0	2.0	.0	71.9
0600Z	12.2	3.8	6.9	.0	.3	.0	.0	20.9	4.1	.0	4.4	.3	.6	.0	69.7
1200Z	13.4	1.9	6.3	.0	.0	.0	.6	21.1	2.8	.3	6.2	.6	.9	.0	68.3
1800Z	10.1	.9	3.2	.0	.0	.0	.3	16.1	3.7	.0	7.8	.3	2.0	.0	70.1
TOT PCT	11.6	2.2	3.3	.0	.1	.0	.2	18.7	3.4	.1	6.1	.3	1.4	.0	70.0
TOT OBS:	1333														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	4.9	12.2	7.9	.8	.1	26.5	17.8	29.6	29.1	31.0	24.0	22.9	23.8	24.5	24.3	24.3
NE	.2	2.5	1.7	.9	.8	.2	5.6	14.5	3.7	4.5	3.8	6.0	3.8	9.8	7.8	4.8	4.8
E	.7	1.1	.8	.1	.0	.0	2.7	9.3	2.2	1.8	3.8	2.6	2.1	4.5	2.1	3.1	3.1
SE	.2	3.3	4.1	2.8	1.5	.8	12.0	19.1	14.6	11.2	8.7	12.6	10.4	13.7	11.0	12.7	12.7
S	.6	3.6	9.8	8.5	3.5	.2	26.2	21.9	22.7	26.4	25.8	31.0	23.4	26.3	27.6	27.2	27.2
SW	.3	1.1	3.6	1.8	.1	.8	6.9	17.4	6.7	6.3	9.0	6.4	7.6	4.5	8.2	7.8	7.8
W	.5	2.0	3.1	1.0	.2	.8	7.0	15.2	7.0	7.4	7.1	7.2	7.9	4.4	8.4	6.8	6.8
NW	.7	3.8	6.2	1.6	.8	.0	10.3	13.3	11.7	12.2	8.4	8.6	12.8	5.7	10.0	11.1	11.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	1.8	2.2	2.3	1.8	5.1	3.0	2.5	4.3	4.3
TOT OBS	104	341	607	377	95	9	1333	17.4	276	199	221	123	237	132	241	162	162
TOT PCT	6.8	22.2	39.6	24.6	6.2	.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+	48+				00	03	06	09	12
N	2.6	9.4	10.5	3.8	.2		26.5	17.8	29.1	28.5	29.9	24.5	24.3	24.3
NE	1.0	2.7	1.4	.2	.2		5.6	14.5	3.7	4.5	3.8	6.0	3.8	9.8
E	1.2	1.0	.5	.0	.0		2.7	9.3	2.2	1.8	3.8	2.6	2.1	4.5
SE	1.3	4.3	3.8	1.9	.6		12.0	19.1	14.6	11.2	8.7	12.6	10.4	13.7
S	2.0	6.4	10.1	6.4	1.3		26.2	21.9	22.7	26.4	25.8	31.0	23.4	26.3
SW	.8	2.3	2.9	.9	.8		6.9	17.4	6.7	6.3	9.0	6.4	7.6	4.5
W	1.1	3.2	2.1	.3	.1		7.0	15.2	7.0	7.4	7.1	7.2	7.9	4.4
NW	1.9	5.1	2.9	.4	.0		10.3	13.3	11.7	12.2	8.4	8.6	12.8	5.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	1.8	2.2	2.3	1.8	5.1	3.0
TOT OBS	228	327	325	216	37	1333	17.4		276	199	221	123	237	132
TOT PCT	14.9	34.4	34.2	14.1	2.4		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

JANUARY

AREA 0037 EUREKA
40.6N 124.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47				
0000Z	1.9	4.3	21.0	37.8	27.5	7.2	.2	18.0	100.0	415
0600Z	2.0	3.2	21.7	40.5	25.4	5.2	2.0	18.1	100.0	346
1200Z	4.3	4.9	23.3	41.2	19.0	7.3	.0	16.5	100.0	369
1800Z	3.2	3.2	23.1	39.2	26.1	5.0	.2	17.1	100.0	403
TOT	44	60	341	607	377	95	9	17.4		1533
PCT	2.9	3.9	22.2	39.6	24.6	6.2	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.8	4.0	8.1	4.9		3.7
NE	3.6	1.0	.3	1.1		2.5
E	.7	.1	.7	.9		4.6
SE	1.5	.7	1.8	7.3		6.5
S	2.4	1.0	4.2	17.1		6.8
SW	.3	.8	2.6	2.8		6.4
W	.3	1.2	3.2	2.0		6.0
NW	2.9	2.3	3.3	1.6		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.1	2.5	717	6.7
TOT OBS	171	82	176	288		5.2
TOT PCT	23.8	11.4	24.5	40.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.8	.3	.0	1.5	2.2	2.9	.7	.1	.0	.1	19.1	
.3	.1	.0	.3	.4	.1	.1	.0	.0	.0	4.8	
.5	.1	.1	.4	.0	.1	.0	.1	.0	.0	1.0	
1.6	.6	.7	2.2	1.3	.7	.8	.1	.2	.0	3.1	
3.8	.4	1.5	6.0	3.2	2.6	1.0	.1	.2	.7	4.9	
.5	.3	.2	1.2	1.0	1.4	.0	.1	.0	.0	1.8	
.3	.0	.0	1.3	1.1	1.3	.1	.0	.0	.0	2.5	
.6	.0	.0	.5	1.4	1.1	.0	.1	.0	.0	6.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2.1	.0	.0	.1	.3	.0	.0	.0	.0	.0	.8	
83	13	18	97	79	73	20	6	3	6	319	717
11.6	1.8	2.5	13.5	11.0	10.2	2.8	.8	.4	.8	44.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	1.1	1.1	1.1	1.2	1.2	1.2	1.2
= OR >5000	1.0	1.8	1.9	1.9	2.1	2.1	2.1	2.1
= OR >3500	2.8	4.1	4.5	4.5	4.7	4.7	4.7	4.7
= OR >2000	10.6	13.3	14.3	14.3	14.7	14.7	14.7	14.7
= OR >1000	18.0	24.4	25.3	25.3	25.8	25.8	25.8	25.8
= OR >600	25.1	35.3	38.0	38.6	39.1	39.1	39.1	39.1
= OR >300	25.5	36.8	40.5	41.0	41.6	41.6	41.6	41.6
= OR >150	26.2	38.0	42.0	42.7	43.5	43.5	43.5	43.5
= OR >0	26.4	40.1	45.3	48.1	51.4	51.8	53.4	55.1
TOTAL	192	291	329	349	373	376	388	400

TOTAL NUMBER OF OBS: 726

PCT FREQ NM <5/8: 44.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	5.4	7.1	7.1	7.2	5.7	5.4	8.7	25.9	9.9	830

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

JANUARY

AREA 0037 EUREKA
40.6N 124.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.9	.2	.2	.2	.3	.1	.1	.1	.0	.9	2.4	
	TOT %	.9	.2	.2	.3	.4	.1	.1	.1	.0	.9	2.6	
1/2<1	PCP	.1	.0	.0	.1	.5	.0	.0	.0	.0	.1	.7	
	NO PCP	.4	.2	.1	.1	.5	.1	.1	.1	.0	.4	1.8	
	TOT %	.5	.2	.1	.2	.9	.1	.1	.1	.0	.4	2.4	
1<2	PCP	.1	.0	.1	.4	.8	.1	.0	.0	.0	.0	1.4	
	NO PCP	.7	.0	.2	.1	.1	.1	.1	.1	.0	.0	.8	
	TOT %	.3	.0	.2	.5	.8	.2	.1	.1	.0	.0	2.1	
2<5	PCP	.0	.2	.0	1.0	3.3	.2	.0	.0	.0	.0	4.7	
	NO PCP	.9	.8	.0	.5	.8	.2	.0	.2	.0	.1	2.1	
	TOT %	.3	.2	.0	1.6	4.1	.4	.0	.2	.0	.1	6.8	
5<10	PCP	1.0	.1	.2	1.8	3.9	.8	.5	.4	.0	.2	8.8	
	NO PCP	2.5	.6	.6	1.7	5.2	1.6	1.3	.9	.0	.1	14.5	
	TOT %	3.5	.6	.8	3.5	9.2	2.4	1.8	1.3	.0	.2	23.3	
10+	PCP	.2	.0	.1	.7	1.3	.3	.3	.3	.0	.0	3.3	
	NO PCP	21.6	9.0	1.5	5.0	10.0	3.8	4.0	7.6	.0	.9	59.4	
	TOT %	21.8	9.0	1.6	5.7	11.3	4.1	4.4	7.9	.0	.9	62.7	
TOT OBS													1311
TOT PCT		26.9	6.2	2.8	11.7	26.8	7.2	6.4	9.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.8	1.0	
	4-10	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	11-21	.2	.1	.1	.2	.3	.1	.0	.0	.0	.0	.9	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.1	.1	.2	.4	.1	.1	.1	.0	.8	2.5	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.1	.1	.0	.3	.6	
	4-10	.1	.1	.0	.0	.1	.0	.1	.1	.0	.0	.6	
	11-21	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.7	
	22+	.1	.0	.0	.1	.5	.0	.0	.0	.0	.0	.7	
	TOT %	.4	.2	.1	.1	.9	.1	.2	.2	.0	.3	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.0	.1	.1	.0	.0	.0	.4	
	11-21	.1	.0	.2	.1	.2	.0	.0	.0	.0	.0	.6	
	22+	.1	.0	.0	.4	.6	.1	.0	.1	.0	.0	1.3	
	TOT %	.3	.0	.2	.5	.9	.2	.1	.1	.0	.0	2.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.4	
	11-21	.2	.2	.0	.5	1.1	.2	.0	.0	.0	.0	2.2	
	22+	.1	.0	.0	1.1	2.9	.1	.0	.1	.0	.0	4.2	
	TOT %	.2	.2	.1	1.7	4.1	.4	.0	.1	.0	.1	6.9	
5<10	0-3	.1	.1	.3	.1	.1	.1	.0	.1	.0	.3	1.2	
	4-10	.8	.3	.3	.7	1.0	.2	.5	.5	.0	.0	4.3	
	11-21	1.8	.0	.1	1.0	3.0	1.2	.7	.5	.0	.0	8.3	
	22+	.5	.1	.0	1.7	4.9	.8	.4	.1	.0	.0	8.4	
	TOT %	3.2	.6	.7	3.5	9.0	2.3	1.6	1.2	.0	.3	22.3	
10+	0-3	.4	.0	.3	.1	.4	.2	.4	.5	.0	1.0	3.4	
	4-10	3.4	2.0	.7	2.3	2.3	.6	1.2	3.0	.0	.0	15.4	
	11-21	10.0	1.5	.4	2.2	4.7	2.2	2.5	3.7	.0	.0	27.3	
	22+	8.2	1.1	.1	1.2	3.6	1.0	.8	1.3	.0	.0	17.4	
	TOT %	22.1	4.6	1.5	5.9	11.0	3.9	4.9	8.5	.0	1.0	63.3	
TOT OBS													1490
TOT PCT		26.7	5.7	2.7	11.9	26.3	6.9	6.8	10.2	.0	2.6	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	149	299	599	999	1999	3499	4999	6499	7999	1.0	52.0	46.0	202
06009	11.6	1.2	2.4	11.0	11.0	6.1	1.8	.6	.0	1.8	47.6	52.4	164
12015	10.8	.7	2.0	6.8	11.5	8.1	2.7	1.4	.0	.7	44.6	55.4	148
18021	9.7	1.9	2.3	16.7	9.7	14.8	3.1	.4	.8	.0	59.5	40.5	257
TOT	85	14	18	97	80	73	20	6	3	6	402	369	771
PCT	11.0	1.8	2.3	12.6	10.4	9.5	2.6	.8	.4	.8	52.1	47.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.2	3.0	2.2	7.4	22.0	63.2	405
06009	1.8	1.5	1.8	6.3	20.9	67.6	340
12015	3.4	1.7	2.6	4.6	26.6	61.0	349
18021	2.6	3.7	2.9	8.7	20.1	61.9	378
TOT	37	37	35	101	329	933	1472
PCT	2.5	2.5	2.4	6.9	22.4	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	13.2	19.5	34.2	21.1	44.7	190
06009	12.6	16.6	29.8	22.5	47.7	151
12015	10.7	15.7	22.9	24.3	52.9	140
18021	10.2	15.9	34.7	28.2	37.1	245
TOT	44	123	227	177	322	726
PCT	11.6	16.9	31.3	24.4	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.1	.0	.1	.0	.0	.0	2	.2
60/64	.0	.0	.0	.7	.2	.3	.1	.1	9	.8
55/59	.0	.0	.1	.9	.9	2.1	3.9	6.9	158	14.0
50/54	.0	.0	.1	.9	3.2	7.0	13.8	21.3	521	46.2
45/49	.0	.0	.4	1.6	3.2	5.3	8.9	13.0	365	32.4
40/44	.0	.0	.0	.4	1.5	1.6	1.2	1.1	65	5.8
35/39	.0	.0	.0	.2	.1	.1	.2	.1	7	.6
TOTAL	0	0	7	34	103	189	315	479	1127	100.0
PCT	.0	.0	.6	3.4	9.1	16.4	28.0	42.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
69/69	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0
60/64	.1	.0	.1	.1	.1	.1	.1	.2	.0	.1
55/59	.8	.4	.1	1.7	8.6	1.0	.5	.7	.0	.4
50/54	8.9	2.1	1.3	7.1	15.8	3.4	2.7	4.4	.0	.6
45/49	14.2	3.1	1.0	2.3	3.0	2.1	1.9	3.6	.0	1.5
40/44	1.6	.4	.2	.3	.5	.6	1.1	.8	.0	.4
35/39	.2	.2	.0	.0	.0	.0	.1	.1	.0	.0
TOTAL	25.8	6.1	2.6	11.5	27.8	7.1	6.4	9.8	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	61	56	51	45	40	39	50.9	421
06009	44	58	55	50	43	39	36	49.9	351
12015	44	58	55	50	43	39	36	49.8	374
18021	48	58	56	51	44	38	37	50.9	404
TOT	48	59	56	50	44	40	36	50.4	1550

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.7	12.8	18.2	24.9	40.4	84	297		
06009	.0	1.8	9.4	15.1	31.3	42.4	85	278		
12015	.0	4.0	7.0	14.5	23.9	46.3	86	272		
18021	.0	6.1	7.1	15.2	30.4	41.2	85	296		
TOT	0	45	104	186	316	492	85	1143		

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF.	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1		2	.0	.2
11/13	.0	.0	.0	.0	.0	.1	.1	.1		3	.0	.2
9/10	.0	.0	.0	.0	.0	.2	.2	.2		7	.1	.5
7/8	.0	.0	.0	.0	.0	.3	.0	.1	.0	5	.0	.4
6	.0	.0	.0	.0	.0	.2	.3	.0	.0	6	.1	.4
5	.0	.0	.0	.0	.0	.5	.7	.0	.0	15	.2	1.0
4	.0	.0	.0	.1	.1	1.2	.2	.0	.0	19	.2	1.3
3	.0	.0	.0	.0	.4	2.7	.6	.0	.0	47	.2	3.5
2	.0	.0	.0	.1	1.0	5.7	.2	.1	.0	88	.2	6.8
1	.0	.0	.0	.4	2.8	8.1	.2	.0	.0	145	1.0	10.6
0	.0	.0	.0	.7	7.5	4.9	.2	.0	.0	167	1.1	12.2
-1	.0	.0	.0	1.7	6.9	5.0	.1	.0	.0	171	.6	13.0
-2	.0	.0	.0	4.6	4.7	1.4	.0	.0	.0	195	1.0	9.8
-3	.0	.0	.0	3.6	5.6	.6	.0	.0	.0	124	.7	9.2
-4	.0	.0	.0	2	3.4	2.8	.1	.0	.0	82	.5	6.1
-5	.0	.0	.0	3.3	2.2	.2	.0	.0	.0	79	.2	6.1
-6	.0	.0	1.1	2.0	1.0	.0	.0	.0	.0	52	.2	3.9
-7/-8	.0	.2	2.2	2.7	.6	.1	.0	.0	.0	79	.0	5.8
-9/-10	.0	.3	.8	.4	.2	.0	.0	.0	.0	21	.0	1.7
-11/-13	.0	.6	.0	.0	.0	.0	.0	.0	.0	12	.0	1.0
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	68	289	448	391	34	7	2		1254	6.3	93.7
PCT	.1	1.1	5.4	23.0	35.7	31.2	2.7	.6	.2	100.0		

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.1	.0	.0	.0	1.7	.0	1.3	.0	.0	.0	.0	1.3
1-2	.3	1.5	1.9	.0	.0	.0	3.7	.0	.0	.5	.0	.0	.0	1.0
3-4	.0	.8	4.8	1.3	.0	.0	6.9	.0	1.0	1.2	.7	.0	.0	2.9
5-6	.0	.0	2.5	2.5	.0	.0	5.1	.0	.3	.5	.4	.0	.0	1.2
7	.0	.0	1.0	1.5	.1	.0	2.7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	1.0	1.8	.2	.0	3.1	.0	.0	.0	.1	.1	.0	.4
10-11	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	11.9	8.2	.7	.0	24.9	.0	3.1	2.4	1.7	.1	.0	7.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.0	1.6	.0	.0	.0	.0	1.6
1-2	.1	.4	.4	.0	.0	.0	.9	.1	1.0	1.0	.0	.0	.0	2.2
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.9	.8	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	.1	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.0	1.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.3	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.7	1.2	.1	.0	.0	2.4	.2	2.6	3.3	3.3	1.6	.0	11.0

PERIOD: (OVER-ALL) 1963-1974

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AREA 0037 EUREKA
40.6N 124.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.1	.0	.0	.0	1.5	.1	.3	.2	.0	.0	.0	.6	
1-2	.4	1.4	2.2	.0	.0	.0	4.1	.2	.2	.3	.0	.0	.0	.7	
3-4	.0	.7	4.5	2.4	.0	.0	7.5	.0	.1	2.0	.0	.0	.0	2.2	
5-6	.0	.3	1.7	5.2	.5	.0	7.6	.0	.2	.9	1.0	.0	.0	2.1	
7	.0	.0	.6	1.6	2.4	.0	4.6	.0	.0	.4	.4	.0	.0	.4	
8-9	.0	.0	.0	.6	.5	.0	1.1	.0	.0	.1	.0	.0	.0	.2	
10-11	.0	.0	.1	.4	.5	.0	1.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.1	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.4	.3	.8	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.7	9.1	10.4	4.8	.3	28.8	.3	.7	3.5	2.0	.1	.0	6.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.4	.0	.0	.0	.0	.8	.2	1.0	.0	.0	.0	.0	1.2	
1-2	.1	.3	.1	.0	.0	.0	.6	.1	1.7	.8	.0	.0	.0	2.7	
3-4	.0	.9	1.4	.1	.0	.0	2.5	.0	.7	1.1	.3	.0	.0	2.1	
5-6	.0	.3	.3	.4	.0	.0	1.0	.1	.4	1.1	.3	.0	.0	2.0	
7	.0	.3	.2	.1	.0	.0	.6	.0	.0	.3	.5	.0	.0	.9	
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.2	.4	.0	.0	.6	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	2.2	2.5	1.1	.1	.0	6.5	.5	3.9	3.7	1.7	.0	.0	9.8	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	7.8	.4	.0	.0	.0	12.3	
1-2	1.5	6.9	7.2	.0	.0	.0	15.6	
3-4	.0	4.3	17.6	5.7	.0	.0	27.6	
5-6	.1	1.5	7.3	11.3	.6	.0	20.9	
7	.0	.3	2.2	4.8	3.5	.0	10.9	
8-9	.0	.0	1.8	3.5	1.0	.0	6.3	
10-11	.0	.0	.9	1.2	.6	.0	2.6	
12	.0	.0	.1	.7	.4	.0	1.3	
13-16	.0	.0	.0	.6	.7	.3	1.6	
17-19	.0	.0	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	20.7	37.6	28.3	7.3	.3	100.0	681

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	2.9	7.0	8.7	2.4	1.8	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	5
6-7	.0	1.2	4.4	7.1	3.5	2.5	1.7	.8	1.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	231	6
8-9	.0	.8	2.3	8.2	5.5	5.8	4.6	1.7	1.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	309	7
10-11	.0	.2	1.5	2.2	1.1	2.2	1.2	.9	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	8
12-13	.0	.0	.6	.5	.2	.5	.3	.4	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	34	9
>13	.0	.0	.0	.4	.5	.0	.4	.1	.1	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	20	12
INDET	1.1	.4	.6	.2	.6	.3	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	5
TOTAL	2.2	5.5	16.4	27.2	13.9	13.1	9.2	4.5	5.2	1.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	994	7
PCT	2.2	5.5	16.5	27.4	13.9	13.2	9.3	4.5	5.2	1.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1860-1974AREA 0037 EUREKA
40.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG MEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.1	.7	.6	.0	.0	.0	.3	2.8	1.7	.0	5.2	.0	2.3	.0	88.0
NE	.3	.0	1.3	.0	.0	.0	.0	1.6	1.3	.0	4.9	.0	11.0	.0	81.2
E	7.3	.0	2.8	.0	.0	.0	3.7	10.1	.0	.0	11.0	.0	11.9	.0	67.0
SE	7.2	.6	4.9	.0	.0	.0	.0	11.9	2.6	.0	6.8	.2	10.4	.0	68.2
S	13.3	.7	4.9	.0	.0	.0	.5	19.5	9.4	1.3	6.0	1.0	9.3	.0	58.4
SW	5.3	3.0	14.2	.0	.0	.0	.6	22.0	8.9	1.8	6.8	.0	2.4	.0	58.8
W	3.1	4.0	1.8	.0	.0	.0	1.8	10.7	3.1	1.8	3.1	.0	.0	.0	83.0
NW	1.9	2.4	5.0	.0	.0	.0	.0	8.7	1.7	.0	9.1	.5	4.0	.0	75.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	1.0	.0	.0	.0	.0	.0	3.8	.0	.0	17.1	.0	24.8	.0	54.3
TOT PCT	5.3	1.2	3.7	.0	.0	.0	.4	10.3	9.0	.5	7.3	.3	7.6	.0	71.4
TOT OBS:	1237														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG MEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	6.5	1.2	4.2	.0	.0	.0	.3	11.6	2.7	.3	8.0	.9	6.8	.0	69.9
06009	5.4	1.0	2.2	.0	.0	.0	.3	8.7	3.2	.0	8.7	.0	7.4	.0	72.1
12015	5.9	1.6	3.9	.0	.0	.0	.3	11.4	2.0	1.0	6.9	.3	5.9	.0	73.2
18021	3.7	.9	4.3	.0	.0	.0	.6	9.5	4.0	.6	7.9	.0	9.1	.0	69.2
TOT PCT	5.4	1.2	3.7	.0	.0	.0	.4	10.3	9.0	.5	7.9	.3	7.3	.0	71.1
TOT OBS:	1282														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	5.5	10.4	6.2	.6	.0		23.6	16.8		24.5	29.5	24.3	19.9	21.9	23.3	23.2	22.7
NE	.5	2.5	2.9	.4	.0	.0		6.0	11.4		3.4	3.2	8.1	9.3	4.3	8.1	6.6	7.7
E	.4	1.0	.8	.2	.0	.0		2.4	10.2		2.0	1.6	3.3	2.0	1.9	2.1	2.6	3.4
SE	.4	3.4	4.5	1.4	.9	.1		10.8	15.7		10.5	11.6	9.6	12.9	11.4	11.5	10.3	10.6
S	.6	5.3	9.2	4.4	1.4	.2		21.1	17.6		23.0	20.8	22.9	14.9	19.1	16.0	25.7	18.6
SW	.3	3.3	2.9	.9	.2	.0		7.4	13.4		9.4	9.2	4.9	3.9	8.0	5.8	6.3	9.7
W	.4	2.0	2.0	.7	.0	.0		5.1	12.7		5.1	3.7	4.4	8.7	8.3	2.1	3.9	3.7
NW	1.0	4.6	6.8	2.3	.3	.1		15.0	14.7		16.6	11.1	15.8	12.9	16.0	17.3	13.4	13.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5							8.5	.0		5.4	9.5	6.7	13.5	9.1	13.7	7.9	10.1
TOT OBS	193	410	578	244	50	5	1480		14.1		294	95	240	89	254	117	242	149
TOT PCT	13.0	27.7	39.1	16.5	3.4	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.4	7.6	10.0	2.6	.0			23.6	16.8		25.7	23.1	22.4	23.0	
NE	2.0	2.6	1.3	.1	.0			6.0	11.4		3.3	3.4	5.5	7.0	
E	.9	1.0	.4	.1	.0			2.4	10.2		1.9	3.0	2.0	2.9	
SE	2.0	5.1	2.1	1.1	.4			10.8	15.7		10.8	10.5	11.5	10.4	
S	2.2	8.8	6.7	3.0	.4			21.1	17.6		22.5	20.7	18.1	23.0	
SW	1.4	3.9	1.7	.5	.0			7.4	13.4		9.3	5.2	7.3	7.6	
W	1.2	2.6	1.0	.3	.0			5.1	12.7		4.8	5.5	6.3	3.8	
NW	3.0	6.7	3.7	1.5	.1			15.0	14.7		15.2	15.0	16.4	13.5	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	8.5							8.5	.0		6.4	8.5	10.5	8.7	
TOT OBS	364	566	400	135	15	1480			14.1		389	329	371	391	
TOT PCT	24.6	38.2	27.0	9.1	1.0			100.0			100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1860-1974

AREA 0037 EUREKA
40.7N 124.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.4	4.1	27.0	40.4	18.8	3.3	.0	14.8	100.0	389
06009	8.3	4.0	25.8	39.8	19.3	1.8	.6	14.3	100.0	329
12015	10.3	5.1	27.8	38.3	14.6	3.0	.5	13.3	100.0	371
18021	8.7	4.9	29.9	37.6	13.6	5.1	.3	14.0	100.0	391
TOT	126	67	410	378	244	50	5	14.1		1480
PCT	8.3	4.5	27.7	39.1	16.3	3.4	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	11.0	3.1	4.8	3.9		3.5
NE	2.9	.7	1.3	1.5		3.8
E	.5	.5	.5	.7		4.9
SE	1.4	1.1	3.4	4.4		6.0
S	2.3	2.4	5.3	12.9		6.4
SW	.8	.7	1.7	3.4		6.1
W	1.1	.9	1.5	1.9		5.3
NW	4.1	2.0	4.2	4.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.7	.8	1.2	3.5		4.9
TOT OBS	237	108	212	328	885	5.1
TOT PCT	26.8	12.2	24.0	37.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.0	.2	1.4	1.8	1.0	.8	.2	.2	.1	15.9	
NE	.8	.0	.1	.3	.5	.6	.1	.1	.0	.0	4.1	
E	.3	.0	.0	.3	.3	.1	.0	.0	.1	.0	1.1	
SE	.9	.0	.2	1.6	1.3	1.8	.5	.2	.1	.1	3.5	
S	1.8	.7	.7	3.1	5.2	2.7	.8	.4	.4	.1	6.8	
SW	.4	.0	.2	.8	1.7	.9	.4	.0	.1	.0	2.0	
W	.3	.0	.1	.6	1.0	.6	.3	.0	.0	.0	2.3	
NW	1.4	.0	.3	1.2	2.0	1.5	.9	.1	.2	.1	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9	.0	.1	.2	.6	.7	.5	.1	.0	.0	4.0	
TOT OBS	80	7	17	85	126	89	37	10	10	4	420	885
TOT PCT	9.0	.8	1.9	9.6	14.2	10.1	4.2	1.1	1.1	.5	47.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	.9	1.5	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	1.3	2.5	2.8	2.8	2.8	2.8	2.8	2.8
= OR >5000	3.3	6.3	6.8	6.8	6.8	6.8	6.8	6.8
= OR >2000	9.0	16.0	16.6	16.6	16.6	16.6	16.6	16.6
= OR >1000	18.7	28.4	30.3	30.3	30.4	30.4	30.4	30.4
= OR >600	24.0	36.4	39.3	39.6	39.8	39.8	39.8	39.8
= OR >300	24.7	37.7	41.3	41.6	41.8	41.8	41.8	41.8
= OR >150	24.8	38.1	41.8	42.1	42.6	42.6	42.6	42.6
= OR >0	24.9	39.1	46.7	46.7	49.9	50.6	51.8	52.6
TOTAL	226	355	424	442	453	459	470	477

TOTAL NUMBER OF OBS: 907

PCT FREQ NM <5/8: 47.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
17.6	5.5	9.6	6.6	6.9	3.6	6.0	7.9	25.9	8.5	968

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1960-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.6	.0	.1	.3	.5	.2	.1	.3	.0	.4	2.4	
	TOT %	.6	.0	.2	.3	.5	.2	.1	.3	.0	.4	2.5	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	.0	.0	.0	.3	.3	.1	.0	.2	.0	.3	1.2	
	TOT %	.0	.0	.0	.3	.4	.1	.0	.2	.0	.4	1.4	
1<2	PCP	.1	.0	.0	.0	.4	.2	.1	.0	.0	.0	.9	
	NO PCP	.2	.0	.0	.0	.2	.1	.0	.3	.0	.3	1.1	
	TOT %	.4	.0	.0	.0	.6	.3	.1	.3	.0	.3	1.9	
2<5	PCP	.1	.1	.0	.3	1.6	.6	.0	.3	.0	.2	3.2	
	NO PCP	.4	.2	.1	.3	.7	.2	.1	.2	.0	.3	2.7	
	TOT %	.9	.3	.1	.6	2.3	.8	.1	.5	.0	.6	5.9	
5<10	PCP	.2	.0	.0	.7	1.8	.5	.2	.8	.0	.0	4.2	
	NO PCP	5.8	.9	.6	2.4	4.8	1.5	.8	2.6	.0	3.3	22.7	
	TOT %	6.0	1.0	.6	3.1	6.6	2.0	1.1	3.4	.0	3.3	26.9	
10+	PCP	.0	.0	.1	.3	.5	.2	.2	.3	.0	.0	1.7	
	NO PCP	15.6	5.0	1.2	6.1	11.7	3.3	3.0	10.2	.0	3.5	59.6	
	TOT %	15.7	5.0	1.3	6.4	12.2	3.5	3.2	10.6	.0	3.5	61.3	
TOT OBS													1236
TOT PCT		23.2	6.3	2.2	10.7	22.6	6.8	4.5	15.2	.0	8.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.2	.0	.0	.0	.1	.1	.0	.4	.9	
	4-10	.0	.0	.0	.1	.3	.2	.0	.1	.0	.0	.7	
	11-21	.3	.0	.1	.1	.1	.0	.0	.0	.0	.0	.7	
	22+	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.0	.3	.3	.3	.2	.1	.3	.0	.4	2.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.4	.4	
	4-10	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.4	
	11-21	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.4	.1	.1	.1	.0	.4	1.3	
1<2	0-3	.1	.0	.0	.1	.0	.0	.1	.0	.0	.4	.6	
	4-10	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.2	.1	.1	.0	.0	.6	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7	
	TOT %	.3	.0	.0	.1	.6	.3	.1	.3	.0	.4	2.1	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.9	1.0	
	4-10	.1	.1	.0	.3	.5	.5	.1	.1	.0	.0	1.7	
	11-21	.3	.3	.1	.2	.7	.2	.1	.2	.0	.0	2.1	
	22+	.3	.1	.0	.2	.9	.2	.0	.2	.0	.0	2.0	
	TOT %	.8	.5	.2	.7	2.1	.9	.2	.6	.0	.9	6.8	
5<10	0-3	.1	.1	.0	.1	.2	.0	.1	.2	.0	3.2	4.1	
	4-10	1.1	.3	.3	.6	1.0	.8	.5	.7	.0	.0	5.3	
	11-21	2.0	.7	.1	1.4	3.0	.7	.3	1.4	.0	.0	9.1	
	22+	2.3	.1	.1	.9	2.1	.6	.1	.9	.0	.0	7.1	
	TOT %	5.4	.9	.5	3.0	6.3	2.1	.9	3.1	.0	3.2	25.5	
10+	0-3	.5	.4	.1	.1	.3	.2	.1	.4	.0	3.5	5.6	
	4-10	4.1	2.2	.5	2.4	3.2	1.5	1.4	3.4	.0	.0	18.8	
	11-21	7.8	2.1	.7	2.7	5.2	1.6	1.4	5.2	.0	.0	27.8	
	22+	3.6	.3	.1	1.3	2.9	.3	.5	1.5	.0	.0	10.6	
	TOT %	16.0	5.0	1.4	6.6	11.7	3.7	3.5	10.5	.0	3.5	61.8	
TOT OBS													1381
TOT PCT		23.2	6.4	2.3	10.9	21.5	7.3	4.9	14.9	.0	8.7	100.0	

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PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1860-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.6	.7	2.6	9.9	13.2	13.2	6.2	1.1	1.1	1.1	55.7	44.3	273
06009	16.7	.5	.9	5.1	14.4	3.3	1.9	.0	.5	.0	43.3	56.7	215
12015	13.3	.6	1.7	9.4	12.8	6.7	1.7	.6	1.7	.6	48.9	51.1	180
18021	5.1	1.2	2.3	11.7	14.0	13.2	5.1	2.3	1.2	.4	50.4	43.6	257
TOT	91	7	18	85	126	89	37	10	10	5	478	447	925
PCT	9.8	.8	1.9	9.2	13.6	9.6	4.0	1.1	1.1	.5	51.7	48.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.6	1.0	2.9	5.5	26.2	61.7	981
06009	4.4	1.8	1.8	7.6	21.8	62.6	340
12015	3.4	.6	2.0	7.4	26.6	60.0	350
18021	2.5	1.7	2.0	7.0	28.3	58.5	357
TOT	46	18	31	98	368	867	1428
PCT	3.2	1.3	2.2	6.9	25.8	60.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.7	11.2	21.9	34.9	43.1	269
06009	17.4	18.8	26.1	19.3	54.6	207
12015	13.6	15.8	28.2	22.6	49.2	177
18021	5.1	8.7	23.6	33.1	43.3	254
TOT	91	119	223	258	426	907
PCT	10.0	13.1	24.6	28.4	47.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.1	.0	.1	.0	.0	.0	.0	.0	2	.2
60/64	.0	.0	.1	.0	.3	.6	.3	.4	18	1.7
55/59	.0	.0	.1	.3	.8	2.9	8.8	9.7	244	22.6
50/54	.0	.0	.0	.4	3.7	5.8	15.7	16.5	455	42.1
45/49	.0	.0	.1	.3	1.7	5.2	8.1	13.8	317	29.4
40/44	.0	.0	.0	.1	.8	.8	1.4	.7	42	3.9
35/39	.0	.0	.0	.0	.1	.0	.0	.1	2	.2
TOTAL	1	0	4	13	80	186	371	445	1080	100.0
PCT	.1	.0	.4	1.2	7.4	15.4	34.4	41.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.3	.3	.1	.1	.2	.0	.0	.3	.0	.5
55/59	2.7	1.3	.9	5.0	7.1	1.1	.4	1.5	.0	2.7
50/54	9.7	2.5	1.0	6.0	11.5	2.8	1.9	3.5	.0	3.2
45/49	8.8	1.8	.5	.9	3.5	2.3	1.7	6.4	.0	3.4
40/44	.9	.5	.0	.2	.2	.1	.6	1.4	.0	.1
35/39	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	22.5	6.4	2.4	10.2	22.4	6.3	4.7	13.1	.0	9.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	62	59	52	46	42	42	52.4	399
06009	61	58	56	50	44	40	38	50.6	343
12015	69	59	56	50	44	41	40	50.2	381
18021	66	62	58	52	46	42	40	51.7	395
TOT	70	61	57	51	45	42	38	51.3	1518

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.1	7.8	19.8	35.3	36.0	85	283
06009	.0	1.4	6.5	12.2	30.6	49.3	87	278
12015	.4	1.1	6.8	13.6	33.6	44.6	86	280
18021	.0	2.5	7.8	15.9	36.0	37.8	85	283
TOT	1	17	61	173	381	471	86	1124

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1860-1974

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TABLE 17

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PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.4	.1	.0	8	.0	.7
9/10	.0	.0	.0	.0	.0	.3	.3	.0	.0	8	.0	.7
7/8	.0	.0	.0	.0	.4	.4	.7	.0	.0	19	.1	1.5
6	.0	.0	.0	.2	1.1	.6	.1	.0	.0	23	.2	1.7
5	.0	.0	.0	.3	1.2	2.0	.1	.0	.0	44	.2	3.4
4	.0	.0	.2	1.1	1.6	1.5	.0	.0	.0	54	.1	4.3
3	.0	.0	.0	2.0	4.9	1.1	.0	.0	.0	98	.4	7.6
2	.0	.0	.2	4.0	6.9	.3	.0	.0	.0	139	1.0	10.4
1	.0	.0	1.0	4.5	6.0	.2	.0	.0	.0	142	1.3	10.3
0	.0	.1	2.9	7.1	4.3	.1	.1	.0	.0	181	1.4	13.4
-1	.0	.0	3.4	5.4	2.5	.0	.0	.0	.0	138	1.2	10.1
-2	.0	.0	3.4	4.6	.9	.0	.0	.0	.0	109	.7	8.3
-3	.0	.2	3.4	3.2	.2	.0	.0	.0	.0	86	.6	6.5
-4	.0	.4	2.5	1.6	.2	.0	.0	.0	.0	57	.7	4.0
-5	.0	.8	1.5	.7	.2	.0	.0	.0	.0	40	.2	3.1
-6	.0	.6	.5	.6	.0	.0	.0	.0	.0	20	.0	1.6
-7/-8	.1	.8	1.4	.7	.0	.0	.0	.0	.0	36	.0	2.9
-9/-10	.2	.5	.2	.2	.0	.0	.0	.0	.0	13	.0	1.1
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6		250		374		21		1	1221	97	1124
PCT	.5	3.5	20.5	36.3	30.6	6.6	1.7	.2	.1	100.0	7.9	92.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.8	1.3	.3	.0	.0	.0	2.6	.5	1.3	.6	.0	.0	.0	2.5
1-2	.0	2.4	2.9	.0	.0	.0	5.3	.1	.9	.8	.0	.0	.0	1.8
3-4	.0	1.6	3.0	1.7	.0	.0	6.3	.0	.1	1.5	.2	.0	.0	1.8
5-6	.0	.1	2.4	.7	.1	.0	3.3	.0	.0	.4	.0	.0	.0	.5
7	.0	.0	1.0	.5	.4	.0	1.9	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	1.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.7	10.0	4.4	.5	.0	21.3	.6	2.5	3.3	.4	.0	.0	6.9

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.7	.3	.0	.0	.0	1.3	.2	1.5	.1	.0	.0	.0	1.8
1-2	.0	.1	.3	.0	.0	.0	.4	.0	1.2	1.3	.0	.0	.0	2.7
3-4	.0	.0	.5	.1	.0	.0	.6	.0	.2	2.0	.8	.0	.0	3.0
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.1	.2	.7	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.7	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	1.2	.4	.0	.0	2.7	.2	3.0	3.9	2.1	1.2	.0	10.4

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.3	.4	.0	.0	.0	2.9	.0	.9	.0	.0	.0	.0	1.0
1-2	.1	2.2	2.0	.0	.0	.0	4.3	.0	.8	.1	.0	.0	.0	1.0
3-4	.0	1.2	4.1	1.2	.0	.0	6.6	.0	1.0	1.1	.0	.0	.0	2.2
5-6	.0	.1	1.2	.7	.3	.0	2.3	.0	.0	1.3	.0	.3	.0	1.6
7	.0	.0	.7	.4	.5	.0	1.7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.4	.7	.4	.0	1.5	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.8	.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.5	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	9.3	4.3	1.6	.0	21.4	.0	2.8	2.8	.4	.3	.0	6.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.0	.0	.0	.0	.4	.5	2.0	.0	.0	.0	.0	2.5	
1-2	.0	.4	.3	.0	.0	.0	.7	.3	1.9	1.9	.0	.0	.0	4.1	
3-4	.0	.5	.4	.0	.0	.0	.9	.0	.6	1.0	.5	.0	.0	2.1	
5-6	.0	.6	.2	.1	.0	.0	.7	.0	.6	1.8	.2	.0	.0	2.5	
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.9	.5	.3	.0	1.7	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.5	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.6	1.3	.4	.0	.0	3.4	.7	5.2	6.1	1.7	.3	.0	14.0	86.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.4	10.5	1.7	.0	.0	.0	28.5	
1-2	.8	10.0	9.6	.0	.0	.0	20.5	
3-4	.0	5.4	13.6	4.5	.0	.0	23.4	
5-6	.0	1.4	7.5	2.7	.7	.0	12.3	
7	.0	.0	3.2	1.8	2.0	.0	7.1	
8-9	.0	.0	.7	2.3	.6	.0	3.3	
10-11	.0	.0	.3	1.0	.3	.0	1.6	
12	.0	.0	.3	.7	.0	.0	1.0	
13-16	.0	.0	.8	.8	.1	.0	1.8	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.7	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.2	27.3	37.7	13.8	4.0	.0	100.0	708

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	6.1	13.9	6.2	3.1	1.1	.6	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	381	4
6-7	.0	4.8	10.8	8.6	5.6	2.8	1.7	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	5
8-9	.0	1.3	2.1	2.2	2.4	2.7	1.2	.4	1.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	156	7
10-11	.0	.4	.4	1.3	1.7	1.7	.6	.6	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	84	8
12-13	.0	.0	.3	.3	.2	.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	8
>13	.0	.0	.0	.0	.6	.6	.0	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	11
INDET	1.1	.6	.4	.6	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
TOTAL	1.9	16.4	30.4	20.9	15.0	9.9	5.3	2.8	4.7	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	1090	5
PCT	1.7	15.0	27.9	19.2	13.8	9.1	4.9	2.6	4.3	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1952-1974
(OVER-ALL) 1860-1974

MARCH

AREA 0037 EUREKA
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	1.2	1.6	.8	.0	.0	.0	.2	3.7	.5	.0	3.1	.0	10.1	.0 82.6
NE	2.7	.0	2.7	.0	.0	.0	.0	5.4	.9	.0	3.2	.0	19.0	.0 71.3
E	3.1	.0	4.6	.0	.0	.0	.0	7.7	4.6	.0	.0	.0	10.8	.0 76.9
SE	23.7	.8	8.6	.0	.0	.0	.0	32.6	1.0	.0	8.6	.0	9.1	.0 48.7
S	17.9	3.4	4.0	.0	.0	.0	.0	24.3	4.3	.0	7.4	.7	7.1	.3 55.9
SW	10.1	1.6	6.0	.0	.0	.0	.9	16.8	4.1	.0	4.8	.0	2.1	.0 72.1
W	.9	5.3	6.8	.0	.0	.0	.0	13.0	5.9	.0	3.5	.0	2.1	.0 75.3
NW	1.3	1.2	2.7	.0	.0	.0	.1	4.8	3.8	.0	3.4	.0	4.1	.0 83.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.7	.0	3.6	.0	.0	.0	.0	4.4	1.5	.0	16.1	.0	5.1	.0 73.0
TOT PCT	6.9	1.8	3.4	.0	.0	.0	.1	11.9	2.5	.0	5.8	.1	7.3	.1 72.2
TOT OBS:	1415													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	6.1	1.9	2.4	.0	.0	.0	.3	10.3	1.9	.0	5.6	.0	8.2	.0 74.1
06009	7.4	2.2	3.8	.0	.0	.0	.0	12.8	1.6	.0	6.3	.3	6.5	.0 72.2
12015	7.7	2.9	5.4	.0	.0	.0	.3	15.7	2.3	.0	5.4	.3	5.1	.0 71.1
18021	7.0	.3	2.2	.0	.0	.0	.0	9.2	4.1	.0	6.5	.0	8.7	.3 71.3
TOT PCT	7.0	1.8	3.4	.0	.0	.0	.1	12.0	2.5	.0	6.0	.1	7.2	.1 72.2
TOT OBS:	1464													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	7.2	13.1	7.6	1.4	.1		29.7	17.6		29.1	32.1	31.4	35.6	28.7	26.9	27.3	29.2
NE	.2	1.3	1.6	1.0	.0	.0		4.0	15.1		.9	7.1	3.2	5.2	4.4	4.9	5.6	4.6
E	.1	.7	.4	.0	.0	.0		1.2	9.3		1.3	.0	1.3	.0	1.3	4.4	1.1	.9
SE	.0	1.7	2.7	1.9	.4	.0		6.7	18.6		5.5	6.0	4.6	11.6	5.8	7.5	8.3	8.3
S	.7	4.3	9.7	5.2	1.2	.0		21.1	17.9		23.5	21.4	22.8	15.6	18.5	18.9	22.6	19.5
SW	.2	3.7	3.3	1.0	.2	.0		8.4	13.3		11.6	6.3	9.1	3.5	6.6	8.0	7.9	9.3
W	.2	2.5	2.6	.6	.1	.0		6.2	13.3		6.7	5.8	6.1	3.5	8.2	5.8	4.2	7.4
NW	.4	4.5	6.9	1.7	.3	.0		13.9	14.6		15.7	11.7	14.7	8.2	16.2	8.0	14.7	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0		5.6	9.7	6.9	16.8	10.1	15.5	8.2	8.5
TOT OBS	179	414	645	304	58	1	1601		14.9		320	124	276	101	267	103	268	162
TOT PCT	11.2	23.9	40.3	19.0	3.6	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.7	11.4	11.5	3.9	.1	29.7	17.6		30.0	32.6	28.2	28.0	
NE	.8	1.4	1.5	.3	.0	4.0	15.1		2.6	3.7	4.5	5.2	
E	.5	.7	.0	.0	.0	1.2	9.3		.9	.9	2.2	1.0	
SE	.8	2.3	2.1	1.5	.0	6.7	18.6		5.7	6.5	6.3	8.3	
S	2.1	7.6	8.1	3.0	.3	21.1	17.9		22.9	20.9	18.6	21.5	
SW	1.7	4.5	1.7	.5	.0	8.4	13.3		10.1	7.6	7.0	8.4	
W	1.3	3.0	1.5	.4	.0	6.2	13.3		6.5	5.4	7.6	5.3	
NW	2.0	6.7	4.5	.7	.0	13.9	14.6		14.6	12.9	13.9	13.9	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	8.9					8.9	.0		6.8	9.5	11.6	8.3	
TOT OBS	333	601	495	164	8	1601		14.9	444	377	370	410	
TOT PCT	20.8	37.5	30.9	10.2	.5		100.0		100.0	100.0	100.0	100.0	

MARCH

PERIOD: (PRIMARY) 1952-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	6.8	2.5	27.5	41.0	19.1	3.2	.0	15.3	100.0	444
06009	9.5	2.1	25.5	37.9	21.2	3.7	.0	15.0	100.0	377
12015	11.6	2.4	23.2	40.5	18.6	3.5	.0	14.6	100.0	370
18021	8.3	2.0	26.8	41.5	17.1	4.1	.2	14.7	100.0	410
TOT	143	36	414	645	304	58	1	14.9		1601
PCT	8.9	2.2	25.9	40.3	19.0	3.6	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	16.2	5.1	6.0	4.8		3.1
NE	2.4	.4	.6	.7		2.7
E	.6	.1	.4	.2		4.0
SE	.4	.2	1.7	3.7		6.9
S	1.4	.8	5.5	11.7		6.8
SW	.6	1.3	3.0	3.0		6.0
W	.8	1.1	2.2	1.6		5.4
NW	3.4	2.4	4.6	3.3		4.8
VAR	.0	.0	.0	.0		.0
CALM	4.1	1.1	1.5	3.3		4.1
TOT OBS	325	195	277	352	1089	4.7
TOT PCT	29.8	12.4	25.4	32.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION												
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS	
.6	.0	.7	1.3	2.9	2.1	1.0	.3	.0	.1	23.1		
.2	.0	.1	.2	.3	.3	.1	.0	.0	.0	.2		
.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.8		
.9	.1	.3	.3	1.0	1.1	.2	.2	.0	.3	1.4		
2.6	.2	.8	1.6	3.5	4.2	2.0	.0	.2	.4	3.9		
.5	.0	.6	.6	1.4	1.3	.4	.1	.0	.2	2.8		
.2	.0	.3	.9	.6	.9	.3	.0	.1	.0	2.4		
.5	.0	.2	.9	2.8	1.4	.6	.0	.0	.1	7.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1.5	.0	.2	.3	.7	.9	.9	.0	.1	.0	5.4		
75	3	34	66	145	136	63	7	6	12	542		1089
6.9	.3	3.1	6.1	13.3	12.5	5.8	.6	.6	1.1	49.8		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.7	1.8	1.8	1.8	1.8	1.8	1.8
>5000	1.9	2.4	2.5	2.5	2.5	2.5	2.5	2.5
>3900	5.2	7.9	8.4	8.4	8.5	8.5	8.5	8.5
>2000	12.5	19.3	20.4	20.6	20.7	20.7	20.7	20.7
>1000	21.4	31.7	33.4	33.7	33.8	33.8	33.8	33.8
>600	24.9	37.0	39.2	39.7	39.8	39.8	39.8	39.8
>300	26.1	39.6	42.1	42.7	42.8	42.9	42.9	42.9
>150	26.1	39.6	42.3	43.0	43.0	43.1	43.1	43.1
>0	26.5	40.7	45.2	46.4	46.1	46.5	49.5	50.2
TOTAL	295	454	504	517	536	541	552	560

TOTAL NUMBER OF OBS: 1115

PCT FREQ NM <5/8: 49.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.8	9.9	8.4	7.8	6.1	6.2	7.5	8.8	22.0	6.4	1166

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.4	*	.0	.2	.3	.1	.1	.2	.0	.8	2.1	
	TOT %	.4	*	.0	.3	.3	.1	.1	.2	.0	.8	2.2	
1/2<1	PCP	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.1	.5	.1	.0	.1	.0	.3	1.1	
	TOT %	.0	.0	.0	.2	.8	.3	.0	.1	.0	.3	1.6	
1<2	PCP	.1	.1	.0	.3	.5	.1	.0	.0	.0	.0	1.0	
	NO PCP	.1	.0	.0	.1	.3	*	.1	.1	.0	.0	.6	
	TOT %	.1	.1	.0	.3	.8	.1	.1	.1	.0	.0	1.6	
2<5	PCP	.0	.0	.0	.8	1.4	.2	*	.0	.0	.1	2.5	
	NO PCP	.2	.1	.0	.2	1.2	.2	.3	.1	.0	.3	2.6	
	TOT %	.2	.1	.0	1.0	2.5	.4	.4	.1	.0	.4	5.1	
5<10	PCP	.5	.1	.1	.7	2.0	.5	.6	.3	.0	.1	5.0	
	NO PCP	4.1	.9	.2	.9	4.4	1.8	1.1	1.9	.0	2.4	19.6	
	TOT %	6.6	1.0	.3	1.6	6.5	2.2	1.7	2.1	.0	2.5	24.6	
10+	PCP	.5	*	.0	.3	.8	.4	.1	.4	.0	.2	2.8	
	NO PCP	22.3	2.7	.9	3.1	9.3	4.1	3.6	10.5	.0	5.5	62.1	
	TOT %	22.8	2.7	.9	3.4	10.1	4.5	3.7	10.9	.0	5.7	64.9	
TOT OBS													1413
TOT PCT													30.3 3.9 1.2 6.8 21.1 7.6 6.0 13.5 .0 9.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.8	.9	
	4-10	.4	*	.0	.1	.1	.1	.1	.2	.0	.0	.9	
	11-21	.1	.0	.0	.1	.2	*	*	*	.0	.0	.5	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.5	*	.0	.2	.4	.1	.1	.2	.0	.8	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.1	.0	.0	.1	.2	.1	.0	.1	.0	.0	.6	
	11-21	.0	.0	.0	*	.2	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.0	.2	.7	.3	.0	.1	.0	.3	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	*	*	.0	.1	.0	.0	.2	
	11-21	.1	.1	.0	.1	.3	.1	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.6	
	TOT %	.2	.1	.0	.3	.8	.1	.1	.1	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	.5	
	4-10	.1	.1	.0	.1	*	.2	.1	.1	.0	.0	.8	
	11-21	.2	*	.0	.2	1.1	.2	.1	.1	.0	.0	2.0	
	22+	*	*	.0	.7	1.3	.1	.1	.0	.0	.0	2.3	
	TOT %	.3	.1	.0	1.0	2.6	.6	.4	.2	.0	.3	5.5	
5<10	0-3	.2	.1	.0	.0	.1	.0	.1	.1	.0	2.4	3.0	
	4-10	1.5	.2	.1	.3	1.0	.7	.5	.6	.0	.0	5.0	
	11-21	2.0	.5	.1	.6	2.7	1.2	.8	.7	.0	.0	8.7	
	22+	2.4	.1	.0	.8	2.5	.3	.3	.7	.0	.0	7.1	
	TOT %	6.2	.9	.3	1.7	6.3	2.2	1.8	2.1	.0	2.4	24.0	
10+	0-3	.1	.1	.1	*	.4	.1	.1	.3	.0	5.5	6.7	
	4-10	5.2	1.0	.6	1.2	2.5	2.3	1.7	3.2	.0	.0	17.7	
	11-21	10.9	.9	.2	1.6	5.5	1.6	1.6	6.1	.0	.0	28.4	
	22+	6.7	.8	.0	.6	1.9	.6	.3	1.2	.0	.0	12.2	
	TOT %	22.9	2.7	.9	3.5	10.3	4.6	3.7	10.8	.0	5.5	65.0	
TOT OBS													1311
TOT PCT													30.2 3.9 1.1 6.9 21.1 7.9 6.0 13.5 .0 9.3 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	5.9	.3	3.8	6.6	13.8	13.8	9.4	.9	.9	.6	55.9	44.1	320
06009	9.7	.4	2.2	4.9	10.1	9.4	4.1	.4	.4	1.5	43.1	56.9	267
12015	8.4	.0	1.7	5.0	13.0	10.5	5.0	.0	.4	1.7	45.8	54.2	238
18021	4.5	.3	3.9	6.8	14.6	13.9	4.5	1.3	.6	1.0	51.5	48.5	309
TOT	79	3	34	67	147	137	67	8	7	13	362	372	1134
PCT	7.0	.3	3.0	5.9	13.0	12.1	5.9	.7	.6	1.1	49.6	50.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	2.6	.5	6.5	22.8	65.6	416
06009	2.6	1.6	2.1	5.8	20.3	67.6	380
12015	2.2	1.4	2.4	5.1	27.8	61.1	370
18021	2.3	1.3	2.0	5.3	25.6	63.5	394
TOT	35	27	27	89	376	1006	1560
PCT	2.2	1.7	1.7	5.7	24.1	64.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	6.0	10.5	19.7	36.8	43.5	315
06009	9.9	12.5	19.8	24.3	55.9	263
12015	8.6	10.3	18.0	29.2	52.8	233
18021	4.6	9.2	18.4	34.9	46.7	304
TOT	79	118	212	354	549	1115
PCT	7.1	10.6	19.0	31.7	49.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.1	.1	.0	.0	.0	.0	2	.2
60/64	.0	.0	.2	.2	.7	.3	.2	.3	21	1.8
55/59	.0	.0	.0	.4	3.1	6.4	6.1	1.1	204	17.2
50/54	.0	.0	.1	1.1	4.7	14.0	17.4	14.6	616	51.9
45/49	.0	.0	.0	.4	2.1	5.1	7.0	12.5	322	27.1
40/44	.0	.0	.0	.0	.5	.6	.4	.3	22	1.9
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	4	26	132	314	370	342	1187	100.0
PCT	.0	.0	.3	2.2	11.1	26.4	31.1	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
60/64	.8	.1	.0	.1	.2	.1	.1	.3	.0	.1
55/59	5.9	1.2	.3	1.5	4.1	.7	.7	1.6	.0	1.2
50/54	15.7	1.8	.8	3.2	11.1	4.3	2.6	6.4	.0	6.0
45/49	8.6	1.1	.1	1.9	3.9	1.5	1.8	6.9	.0	3.3
40/44	.5	.1	.0	.0	.0	.2	.2	.6	.0	.3
35/39	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	31.6	4.2	1.2	6.6	19.4	6.8	5.5	13.9	.0	10.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	62	59	52	47	44	42	52.4	445
06009	62	58	56	50	45	42	40	50.5	388
12015	58	57	55	50	45	42	39	50.1	385
18021	66	62	57	52	46	43	38	51.9	421
TOT	67	61	57	51	46	43	38	51.3	1639

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	12.4	29.8	27.3	27.3	82	315		
06009	.0	2.2	9.0	26.0	31.3	31.6	83	323		
12015	.0	2.0	8.5	25.2	33.3	31.0	83	294		
18021	.0	2.3	13.3	24.0	31.0	29.3	82	300		
TOT	0	30	133	324	378	367	83	1232		

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.2	.1		4	.0	.3
11/13	.0	.0	.0	.0	.0	.2	.1		8	.0	.6
9/10	.0	.0	.0	.1	.1	.1	.1	.0	6	.1	.4
7/8	.0	.0	.0	.2	.3	1.2	.4	.0	29	.1	2.0
6	.0	.0	.0	.1	1.6	.6	.0	.0	32	.1	2.2
5	.0	.0	.0	.4	2.4	1.9	.0	.0	65	.1	4.5
4	.0	.0	.0	1.6	3.5	1.0	.0	.1	86	.4	5.8
3	.0	.0	.1	3.9	4.3	.4	.0	.0	121	1.2	7.6
2	.0	.0	.2	6.5	5.8	.3	.0	.0	178	1.4	11.5
1	.0	.0	1.6	6.4	3.6	.0	.0	.0	161	.6	11.0
0	.0	.1	2.6	6.8	2.1	.0	.0	.0	160	.6	11.0
-1	.0	.1	2.2	5.9	1.4	.0	.0	.0	132	.6	8.9
-2	.0	.0	3.2	5.5	.8	.0	.0	.0	132	.4	9.2
-3	.0	.3	1.7	3.9	.6	.0	.0	.0	91	.3	6.3
-4	.0	.0	2.3	2.8	.1	.0	.0	.0	73	.1	5.1
-5	.1	.1	1.7	1.2	.0	.0	.0	.0	42	.1	2.9
-6	.0	.4	.9	.7	.0	.0	.0	.0	28	.0	2.0
-7/-8	.0	.6	.9	.4	.0	.0	.0	.0	26	.0	1.9
-9/-10	.1	.2	.2	.0	.0	.0	.0	.0	8	.0	.6
-11/-13	.1	.1	.1	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	5	26	245	642	370	80	15	3	1386	84	1302
PCT	.4	1.9	17.7	46.3	26.7	5.8	1.1	.2	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.1	.0	.0	.0	2.6	.2	1.1	.0	.0	.0	.0	1.3
1-2	.0	3.4	3.4	.0	.0	.0	6.8	.0	.3	.8	.0	.0	.0	1.1
3-4	.0	.5	5.7	2.8	.0	.0	9.0	.0	.2	.7	.6	.0	.0	1.4
5-6	.0	.6	2.5	4.4	.6	.0	8.1	.0	.0	.2	.5	.0	.0	.7
7	.0	.1	1.1	2.4	.9	.0	4.5	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.5	.6	.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.3	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	13.5	10.7	2.2	.0	33.4	.2	1.6	1.8	1.1	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.1	.6	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.0	.8
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.3	.5	1.0	.0	.0	2.0
5-6	.0	.2	.2	.0	.0	.0	.3	.0	.0	.5	.9	.3	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.6	.0	.0	.0	1.3	.1	1.6	1.3	2.1	.7	.0	5.8

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.1	.0	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.3	3.1	.0	.0	.0	4.6	.0	1.2	.3	.0	.0	.0	1.7	
3-4	.0	.8	4.0	2.0	.0	.0	6.8	.0	.9	.6	.3	.0	.0	1.8	
5-6	.0	.0	2.2	2.0	.9	.0	5.1	.0	.3	.5	.2	.0	.0	.9	
7	.0	.0	.8	1.1	.4	.0	2.2	.0	.0	.7	.0	.0	.0	.8	
8-9	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.1	.4	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.2	.0	.6	.0	.7	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.4	10.9	6.5	1.8	.0	23.1	.0	3.0	2.3	1.1	.2	.0	6.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	1.3	.8	.0	.0	.0	2.1	.0	1.6	1.4	.0	.0	.0	3.1	
3-4	.0	.4	.3	.0	.0	.0	.7	.0	1.2	2.9	.5	.0	.0	4.5	
5-6	.0	.2	.7	.0	.0	.0	.8	.0	.3	1.2	.3	.0	.0	1.8	
7	.0	.1	.3	.2	.0	.0	.5	.0	.2	.8	.6	.0	.0	1.6	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.2	.2	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.4	2.2	.2	.2	.0	5.0	.0	4.2	6.9	1.8	.3	.0	13.2	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	7.8	.1	.0	.0	.0	15.4	
1-2	.9	10.2	10.3	.0	.0	.0	21.4	
3-4	.0	4.5	14.8	7.0	.0	.0	26.2	
5-6	.0	1.5	7.8	8.1	1.8	.0	19.1	
7	.0	.4	3.7	4.3	1.3	.0	9.9	
8-9	.0	.0	1.5	1.8	.3	.0	3.6	
10-11	.0	.0	.8	1.3	.9	.0	2.2	
12	.0	.0	.1	.4	.9	.0	1.3	
13-16	.0	.0	.0	.1	.3	.0	.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.4	24.4	38.9	23.2	5.2	.0	100.0	669

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.5	10.5	7.0	4.0	2.2	.6	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	373	5
6-7	.0	3.3	8.1	12.9	8.7	5.3	2.8	1.2	.8	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	593	6
8-9	.0	.8	.8	2.6	1.8	2.1	2.7	.8	1.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	132	8
10-11	.0	.8	1.0	1.1	.9	.6	.9	.8	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	84	8
12-13	.0	.0	.7	.2	.4	.1	.6	.2	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	37	9
13-17	.0	.0	.0	.0	.4	.2	.2	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	15	11
INDRY	1.1	.3	.3	.2	.4	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
TOTAL	1.9	11.8	26.2	29.7	20.7	13.2	9.9	4.1	3.9	1.2	.7	1	2	.0	.0	.0	.0	.0	.0	1236	6
PCT	1.5	9.5	21.2	24.0	16.7	10.7	8.0	3.3	3.2	1.0	.6	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1951-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0037 EUREKA
40.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	.4	.2	1.8	.0	.0	.0	.0	2.4	.4	.0	5.4	.0	11.3	.3	80.2	
NE	2.5	.0	1.6	.0	.0	.0	.0	4.1	.0	.0	4.9	.0	28.7	.0	62.3	
E	15.4	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	.0	7.7	.0	76.9	
SE	10.6	4.0	6.5	.0	.0	.0	.0	21.2	2.8	.0	6.2	.0	6.5	.0	63.2	
S	9.3	3.4	5.0	.0	.0	.0	.0	17.7	4.8	.3	4.8	.0	3.8	.4	68.3	
SW	7.2	3.0	6.2	.0	.0	.0	.0	16.4	2.0	2.0	7.5	.3	1.0	.3	70.5	
W	7.5	4.0	6.5	.0	.0	.0	.0	18.0	6.7	.0	3.8	.8	1.9	.0	68.8	
NW	1.8	1.7	1.5	.0	.0	.0	.0	5.0	1.1	.0	5.9	.3	1.9	.0	85.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.2	1.2	.0	.0	.0	.0	2.3	1.2	.0	17.4	.0	10.5	.0	68.6	
TOT PCT	3.3	1.5	2.9	.0	.0	.0	.0	7.8	1.7	.1	6.1	.1	7.8	.2	76.2	
TOT OBS:	1493															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.0	2.5	1.1	.0	.0	.0	.0	6.6	1.9	.0	7.7	.0	8.6	.3	74.9
06009	3.8	1.1	3.3	.0	.0	.0	.0	8.2	1.9	.0	7.4	.3	5.2	.3	76.8
12015	2.3	1.3	3.9	.0	.0	.0	.0	7.5	2.3	.0	4.1	.3	7.0	.3	78.6
18021	4.0	1.3	3.0	.0	.0	.0	.0	8.3	.8	.5	5.3	.0	10.6	.0	74.5
TOT PCT	3.3	1.5	2.8	.0	.0	.0	.0	7.7	1.7	.1	6.1	.1	7.9	.2	76.2
TOT OBS:	1513														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	6.7	17.6	12.9	2.1	.1		39.6	19.3		38.3	50.2	38.9	49.1	36.2	38.2	39.0	39.0
NE	.2	1.0	1.7	.8	.1	.0		3.8	15.8		2.0	5.6	2.1	6.5	4.9	6.5	4.1	1.7
E	.1	.5	.3	.1	.0	.0		.9	10.3		.5	.0	.3	.9	1.1	2.2	1.7	.3
SE	.2	1.7	2.6	.9	.1	.0		5.4	15.0		3.4	3.2	3.9	4.4	4.4	12.8	7.9	6.0
S	.7	3.7	5.9	2.2	.5	.0		12.9	15.1		14.2	13.7	12.2	7.2	12.6	8.5	14.9	16.0
SW	.4	1.9	2.3	.3	.0	.0		5.0	12.0		8.1	3.5	4.4	2.3	5.7	.8	5.1	4.8
W	.5	3.0	2.4	.3	.0	.0		6.1	10.9		8.0	4.6	7.8	2.6	5.9	6.7	4.7	3.5
NW	1.0	6.8	8.2	3.4	.6	.0		20.0	14.8		21.3	15.5	24.8	13.8	21.4	16.5	18.1	19.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2	.0	.0	.0	.0	.0		6.2	.0		4.2	3.7	5.6	13.1	7.8	7.9	4.5	6.9
TOT OBS	161	424	688	349	56	2	1680		15.3		307	108	285	107	309	127	292	145
TOT PCT	9.6	25.2	41.0	20.8	3.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.1	13.7	17.7	5.5	.7		39.6	19.3		41.4	41.7	36.8	39.0
NE	.4	1.6	1.7	.1	.0		3.8	15.8		3.0	3.3	5.3	3.3
E	.2	.5	.2	.0	.0		.9	10.3		.4	.4	1.4	1.3
SE	.7	2.9	1.2	.6	.0		5.4	15.0		3.4	4.0	6.8	7.3
S	2.4	6.2	2.8	1.5	.1		12.9	15.1		14.0	10.8	11.4	15.3
SW	1.2	2.8	.9	.2	.0		5.0	12.0		6.9	3.8	4.3	5.0
W	1.6	3.4	1.0	.1	.0		6.1	10.9		7.1	6.4	6.1	5.0
NW	3.4	9.2	5.6	1.6	.2		20.0	14.8		19.8	21.8	20.0	18.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	6.2	.0	.0	.0	.0		6.2	.0		4.1	7.7	7.8	5.3
TOT OBS	306	677	521	161	15	1680		15.3		413	392	436	437
TOT PCT	18.2	40.3	31.0	9.6	.9		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1951-1974
(OVER-ALL) 1858-1974

APRIL

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.1	2.4	23.9	41.7	23.4	4.6	.0	16.4	100.0	415
06009	7.7	2.8	21.2	40.3	24.5	3.3	.3	16.0	100.0	392
12015	7.8	4.6	25.7	44.3	14.9	2.5	.2	14.2	100.0	436
18021	5.3	3.7	29.7	37.5	20.8	3.0	.0	14.9	100.0	437
TOT	104	57	424	688	349	36	2	15.3		1680
PCT	6.2	3.4	25.2	41.0	20.8	3.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	19.5	6.3	9.2	7.4		3.5
NE	1.7	.5	1.3	.9		4.1
E	.1	.1	.4	.3		6.1
SE	.4	.2	1.0	3.0		6.8
S	.9	1.0	3.1	7.2		6.6
SW	.8	.8	1.7	2.1		5.7
W	.8	.9	2.2	1.5		5.3
NW	7.2	2.5	5.1	4.0		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.2	1.7	2.4		5.2
TOT OBS	377	142	292	328	1139	4.5
TOT PCT	33.1	12.5	25.6	28.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.1	.3	.5	1.4	6.0	3.7	1.0	.2	.2	.2	27.9		
.2	.0	.3	.3	.7	.5	.6	.1	.0	.1	0.2	2.3	
.0	.0	.1	.2	.2	.2	.0	.0	.0	.0	.1	.2	
.3	.1	.4	.8	.5	.6	.5	.2	.0	.0	1.3		
.4	.1	.5	1.7	2.4	2.1	1.6	.5	.0	.2	2.9		
.1	.1	.3	.7	1.1	.4	.3	.0	.0	.0	0.2	2.3	
.2	.2	.0	.7	1.0	.7	.0	.0	.0	.0	0.2	2.5	
.9	.1	.2	1.3	2.6	1.3	.7	.0	.0	.2	11.6		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.1	.1	.4	.7	.9	.5	.1	.1	.0	2.3		
45	10	26	85	172	119	52	11	4	7	608		
4.0	.9	2.3	7.5	13.1	10.4	4.6	1.0	.4	.6	53.4	100.0	1139

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3500	5.3	6.5	6.7	6.8	6.8	6.8	6.8	6.8
>2000	12.0	16.9	17.3	17.4	17.4	17.4	17.4	17.4
>1000	22.4	31.4	32.2	32.3	32.3	32.3	32.3	32.3
>600	27.7	37.9	39.4	39.7	39.7	39.7	39.7	39.7
>300	28.7	39.7	41.6	41.9	41.9	41.9	41.9	41.9
>150	28.9	40.5	42.4	42.6	42.6	42.6	42.6	42.6
>0	29.2	41.5	44.2	44.8	45.8	46.0	46.8	46.8
TOTAL	337	479	510	517	528	531	540	540

TOTAL NUMBER OF OBS: 1154

PCT FREQ NM <5/8: 53.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	20.9	8.3	9.6	7.9	5.7	4.9	9.0	8.1	22.4	3.3	1103

PERIOD: (PRIMARY) 1951-1974
(OVER-ALL) 1858-1974

APRIL

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.8	.0	.0	.0	.1	.0	.0	.3	.0	.0	.3	1.5
	TOT %	.9	.0	.0	.0	.2	.0	.0	.3	.0	.0	.3	1.8
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.0	.2	.1	.1	.1	.2	.0	.0	.1	1.1
	TOT %	.3	.0	.0	.2	.1	.1	.1	.2	.0	.0	.1	1.1
1<2	PCP	.1	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.6
	NO PCP	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4
	TOT %	.3	.0	.0	.1	.2	.2	.0	.2	.0	.0	.0	1.0
2<5	PCP	.1	.0	.0	.3	.6	.1	.1	.2	.0	.0	.0	1.3
	NO PCP	.5	.1	.0	.2	.4	.1	.1	.5	.0	.0	.3	2.1
	TOT %	.6	.1	.0	.5	.9	.2	.2	.7	.0	.0	.3	3.3
5<10	PCP	.4	.1	.1	.3	.8	.4	.5	.2	.0	.1	.2	2.9
	NO PCP	7.7	.9	.3	1.2	2.5	.8	.9	2.5	.0	.9	17.7	
	TOT %	8.1	1.1	.3	1.5	3.3	1.3	1.4	2.7	.0	1.0	20.6	
10+	PCP	.3	.0	.1	.5	.8	.3	.5	.4	.0	.0	.0	2.7
	NO PCP	30.1	2.8	.5	2.6	7.4	3.2	4.1	14.7	.0	4.0	69.4	
	TOT %	30.4	2.8	.6	3.1	8.2	3.4	4.5	15.1	.0	4.0	72.1	
TOT OBS		1493											
TOT PCT		40.5	4.1	.9	5.4	12.9	5.1	6.2	19.2	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.5	.6	
	4-10	.3	.0	.0	.0	.1	.0	.0	.2	.0	.0	.7	
	11-21	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.6	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.9	.0	.0	.0	.2	.0	.0	.4	.0	.5	2.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.4	
	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.3	.0	.0	.2	.1	.1	.1	.2	.0	.2	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.4	
	22+	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.0	.0	.1	.2	.2	.0	.2	.0	.1	1.2	
2<5	0-3	.0	.0	.1	.0	.1	.0	.0	.1	.0	.3	.6	
	4-10	.1	.0	.0	.1	.0	.1	.1	.2	.0	.0	.6	
	11-21	.3	.1	.0	.2	.5	.0	.0	.3	.0	.0	1.5	
	22+	.2	.0	.0	.2	.3	.0	.0	.1	.0	.0	.8	
	TOT %	.6	.1	.1	.6	.9	.1	.2	.6	.0	.3	3.5	
5<10	0-3	.1	.1	.0	.0	.1	.2	.1	.1	.0	1.0	1.6	
	4-10	.9	.4	.1	.4	.6	.4	.8	.7	.0	.0	4.3	
	11-21	3.4	.4	.2	.7	1.5	.6	.4	1.1	.0	.0	8.5	
	22+	3.6	.1	.0	.2	1.1	.1	.1	1.0	.0	.0	6.1	
	TOT %	8.0	1.0	.3	1.4	3.3	1.3	1.3	2.9	.0	1.0	20.5	
10+	0-3	.1	.1	.0	.1	.4	.2	.2	.0	.0	4.2	6.1	
	4-10	5.2	.6	.4	1.1	2.7	1.3	2.2	5.4	.0	.0	18.7	
	11-21	13.8	1.2	.1	1.5	3.7	1.6	1.9	6.4	.0	.0	30.2	
	22+	11.1	.8	.1	.4	1.1	.2	.2	2.6	.0	.0	16.6	
	TOT %	30.3	2.7	.5	3.1	7.9	3.4	4.5	15.1	.0	4.2	71.6	
TOT OBS		1616											
TOT PCT		40.4	3.9	.9	5.3	12.8	5.0	6.1	19.4	.0	6.3	100.0	

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PERIOD: (PRIMARY) 1951-1974
(OVER-ALL) 1858-1974AREA 0037 EUREKA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.0	.7	1.3	9.2	16.4	11.2	5.3	.3	.3	1.0	47.7	52.3	304
06009	5.8	.8	2.3	4.7	14.4	5.4	4.7	1.2	.4	.0	39.7	60.3	257
12015	5.1	1.1	1.8	6.9	14.5	10.5	2.9	.7	.4	.4	44.4	55.6	275
18021	3.4	.9	3.4	8.0	13.9	14.2	5.6	1.5	.9	.9	52.9	47.1	323
TOT	46	10	26	85	172	123	54	11	6	7	540	619	1159
PCT	4.0	.9	2.2	7.3	14.8	10.6	4.7	.9	.5	.6	46.6	53.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.5	.7	1.5	3.0	17.2	75.1	402
06009	1.8	2.0	1.3	2.8	17.9	74.2	391
12015	2.1	.9	.9	4.0	23.5	68.5	426
18021	1.7	1.0	1.2	4.1	23.2	68.9	418
TOT	33	19	20	57	336	1172	1637
PCT	2.0	1.2	1.2	3.5	20.5	71.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.0	3.9	14.1	33.6	52.3	304
06009	5.9	9.0	15.3	25.5	59.2	255
12015	5.1	8.1	15.8	29.3	54.9	275
18021	3.4	7.8	17.4	35.7	46.9	322
TOT	46	82	181	362	611	1154
PCT	4.0	7.1	15.7	31.4	52.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
65/69	.2	.0	.6	.1	.1	.2	.1	.0	7	.5
60/64	.0	.0	.0	.2	.4	.4	.2	.0	18	1.2
55/59	.0	.0	.1	.5	1.6	4.6	4.0	1.9	163	12.7
50/54	.0	.0	.1	.7	5.1	16.4	26.0	13.9	800	62.3
45/49	.0	.0	.0	.3	2.9	5.3	8.8	6.8	287	22.3
40/44	.0	.0	.0	.0	.1	.1	.2	.5	11	.9
TOTAL	2	0	3	23	131	349	481	296	1283	100.0
PCT	.2	.0	.3	1.8	10.2	27.2	37.4	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
65/69	.2	.0	.0	.0	.1	.1	.0	.2	.0	.0
60/64	.4	.1	.0	.1	.1	.0	.1	.5	.0	.1
55/59	4.3	1.1	.0	.6	2.6	.7	1.0	2.1	.0	1.1
50/54	25.9	3.6	.4	3.3	8.5	3.0	2.9	10.8	.0	3.8
45/49	8.9	.6	.3	1.5	2.3	1.0	1.4	5.2	.0	1.2
40/44	.4	.0	.0	.1	.2	.1	.1	.0	.0	.0
TOTAL	40.3	4.4	.7	5.6	13.8	4.9	5.5	18.7	.0	6.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	66	59	52	48	46	43	52.9	421
06009	61	56	54	50	47	45	44	50.3	394
12015	67	57	55	50	46	44	42	50.2	437
18021	67	63	59	52	47	45	44	52.6	440
TOT	70	62	57	51	47	45	42	51.5	1694

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	13.8	30.3	32.0	20.9	80			297
06009	.0	1.8	8.0	23.4	42.5	24.3	83			325
12015	.6	.6	5.0	25.7	41.9	26.3	84			339
18021	.0	2.7	14.5	29.2	31.6	22.1	81			339
TOT	2	26	133	392	482	305	82			1300

PERIOD: (PRIMARY) 1951-1974
(OVER-ALL) 1958-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.3	.0	4	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.0	3	.0	.2
11/13	.0	.0	.0	.0	.2	.4	.1	.0	10	.0	.7
9/10	.0	.0	.0	.3	.3	.2	.1	.0	12	.1	.7
7/8	.0	.0	.1	.8	1.5	.1	.0	.0	36	.1	2.4
6	.0	.0	.2	2.5	.4	.0	.1	.0	45	.1	3.1
5	.0	.1	.1	2.2	.3	.0	.0	.0	38	.0	2.7
4	.0	.1	.6	5.5	.3	.0	.0	.0	91	.2	6.2
3	.0	.1	3.0	5.1	.4	.0	.0	.0	123	.5	8.1
2	.0	.1	8.6	2.3	.1	.0	.0	.0	160	1.2	10.0
1	.0	.8	11.4	3.2	.1	.0	.0	.0	220	1.3	14.2
0	.0	1.0	9.4	2.4	.0	.0	.0	.0	182	.9	11.8
-1	.0	2.7	6.2	.8	.1	.0	.0	.0	141	.3	9.6
-2	.0	2.7	5.8	.8	.1	.0	.0	.0	131	.1	9.0
-3	.1	2.0	2.9	.4	.1	.0	.0	.0	78	.1	5.4
-4	.1	2.7	2.5	.2	.1	.0	.0	.0	81	.3	5.4
-5	.0	1.3	.7	.1	.0	.0	.0	.0	31	.0	2.2
-6	.2	.5	.4	.0	.0	.0	.0	.0	15	.1	1.0
-7/-8	.1	.8	.1	.1	.0	.0	.0	.0	16	.0	1.1
-9/-10	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.4
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	13	219	741	379	53	11	10	1	1427	75	1392
PCT	.9	15.3	51.9	26.6	3.7	.8	.7	.1	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	3.8	.5	.0	.0	4.3	.0	1.1	.0	.0	.0	1.1
1-2	.1	2.7	5.3	.0	.0	8.1	.0	.1	.6	.0	.0	.7
3-4	.0	.7	8.1	5.4	.0	14.2	.0	.2	1.0	.2	.0	1.4
5-6	.0	.1	4.1	5.0	.6	9.8	.0	.1	.3	.3	.0	.7
7	.0	.0	2.3	3.0	.7	6.0	.0	.0	.0	.0	.1	.2
8-9	.0	.0	.7	1.3	.6	2.6	.0	.0	.2	.0	.0	.2
10-11	.0	.1	.1	.7	.0	1.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	7.5	21.1	15.7	2.3	46.7	.0	1.5	2.2	.7	.1	4.4

MGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	.2	.0	.0	.0	.2	.2	.9	.2	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.4	1.2	.0	.0	1.7
3-4	.0	.0	.2	.0	.0	.2	.0	.0	.7	.1	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8
7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.2	.0	.0	.5	.2	1.3	2.6	.8	.1	5.0

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.9	.1	.0	.0	.0		1.2	.0	.0	.0	.0	.0	.0		.1
1-2	.1	.8	1.1	.0	.0	.0		2.0	.1	1.1	.0	.0	.0	.0		1.2
3-4	.0	.7	1.0	.1	.0	.0		1.8	.1	.1	1.2	.0	.0	.0		1.5
5-6	.0	.1	.8	1.0	.0	.0		1.9	.0	.0	.4	.3	.0	.0		.7
7	.0	.0	.4	.6	.1	.0		1.1	.0	.0	.6	.0	.0	.0		.6
8-9	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.6	3.4	2.1	.2	.0		8.6	.3	1.2	2.3	.3	.0	.0		4.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.6	.1	.0	.0	.0		.8	.5	1.7	.0	.0	.0	.0		2.3	
1-2	.0	1.0	.2	.0	.0	.0		1.2	.0	1.9	1.6	.0	.0	.0		3.6	
3-4	.0	.8	1.1	.0	.0	.0		1.9	.1	1.7	3.4	.9	.0	.0		6.1	
5-6	.1	.0	.3	.0	.0	.0		.4	.0	.5	1.4	1.0	.2	.0		3.2	
7	.0	.0	.1	.1	.0	.0		.2	.0	.1	.7	.8	.0	.0		1.6	
8-9	.0	.0	.2	.0	.0	.0		.2	.0	.0	.0	.2	.3	.0		.5	
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.2	.4	.0	.0		.5	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.4	2.2	.1	.0	.0		4.9	.7	6.0	7.3	3.3	.8	.0		18.0	92.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.7	9.2	.9	.0	.0	.0	18.8	
1-2	.5	8.0	10.1	.0	.0	.0	18.6	
3-4	.2	4.2	18.7	6.8	.0	.0	28.0	
5-6	.1	.9	7.8	7.8	.9	.0	17.6	
7	.0	.2	4.1	4.6	1.0	.0	10.0	
8-9	.0	.0	1.1	1.9	1.0	.0	4.0	
10-11	.0	.1	.4	1.2	.1	.0	1.9	
12	.0	.0	.0	.1	.2	.0	.4	
13-16	.0	.0	.0	.4	.4	.0	.7	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	22.8	41.1	22.9	3.6	.0	100.0	803

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	.7	6.0	12.5	6.9	4.4	1.4	.6	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	412
6-7	.0	3.6	11.7	11.5	6.5	3.5	1.1	1.3	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	508
8-9	.0	1.0	1.7	1.7	3.7	1.5	1.8	.7	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	185
10-11	.0	.6	.6	.6	.8	.7	.4	.5	.6	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	67
12-13	.0	.0	.3	.5	.4	.5	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
>13	.0	.0	.0	.1	.2	.2	.2	.2	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	13
INDET	1.6	.2	.6	.5	.2	.2	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
TOTAL	29	144	342	270	202	100	54	38	43	13	6	2	1	.0	.0	.0	.0	.0	.0	.0	1244
PCT	2.3	11.6	27.5	21.7	16.2	8.0	4.3	3.1	3.5	1.0	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1884-1973

MAY

AREA 0037 EUREKA
40.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	.5	.0	1.0	.0	.0	.0	.0	1.5	.6	.0	9.1	.2	14.8	1.0	72.8
NE	.0	.0	2.2	.0	.0	.0	.0	2.2	1.5	.0	4.1	.4	22.2	.0	69.6
E	.0	.0	6.0	.0	.0	.0	.0	11.9	16.4	3.0	3.0	.0	.0	.0	65.7
SE	4.7	.0	1.9	.0	.0	.0	.0	6.6	4.2	.9	23.9	.0	2.3	.0	62.0
S	10.3	2.0	4.3	.0	.0	.0	.0	16.5	4.8	.7	12.1	.7	5.3	.0	59.8
SW	6.2	3.5	3.1	.0	.0	.0	.0	12.7	1.9	.0	6.6	.0	3.1	.0	75.7
W	.0	.0	1.3	.0	.0	.0	.0	1.5	3.1	.8	10.7	1.1	4.2	.0	78.3
NW	.9	.0	1.2	.0	.0	.0	.0	2.1	2.0	.2	9.2	.4	3.0	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.2	.0	.0	.0	.0	1.2	2.5	.0	42.0	.0	8.6	.0	45.7
TOT PCT	1.7	.4	1.6	.0	.0	.0	.0	3.7	1.8	.2	11.1	.3	10.3	.5	72.2
TOT OBS:	1642														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
0000	1.7	.5	1.4	.0	.0	.0	.0	3.5	.7	.0	11.3	.0	11.8	.3	72.1
0600	.8	.3	1.6	.0	.0	.0	.0	2.6	2.1	.3	9.7	.3	9.9	.8	73.8
1200	1.9	.7	1.9	.0	.0	.0	.0	4.6	2.4	.0	10.4	.5	9.2	.7	72.2
1800	2.2	.0	1.6	.0	.0	.0	.0	3.8	2.0	.2	12.7	.2	10.5	.0	70.5
TOT PCT	1.7	.4	1.6	.0	.0	.0	.0	3.7	1.8	.2	11.1	.3	10.4	.5	72.1
TOT OBS:	1667														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.5	6.7	24.1	16.5	1.9	.1	49.7	19.5	48.0	43.5	49.2	49.3	51.7	48.8	52.6	50.2	
NE	.0	.9	2.2	.6	.0	.0	3.8	16.0	1.7	8.2	4.0	3.2	3.6	6.5	4.2	2.8	
E	.2	.5	.1	.1	.0	.0	.9	8.5	1.4	1.7	.6	1.1	.5	2.3	.3	.7	
SE	.2	1.1	1.6	.2	.0	.0	3.2	12.3	3.3	4.4	1.6	5.6	4.1	2.3	3.8	1.2	
S	.3	3.1	4.2	1.1	.1	.0	8.8	13.7	8.6	12.4	8.3	9.0	6.5	11.7	8.7	10.5	
SW	.4	1.9	1.7	.3	.0	.0	4.2	11.1	4.5	5.5	3.4	2.5	4.3	2.9	3.5	8.0	
W	.4	2.4	1.0	.1	.0	.0	3.9	9.9	4.5	3.2	4.7	2.7	4.3	2.7	2.5	5.3	
NW	.5	6.4	8.9	3.8	.8	.0	20.5	15.8	23.9	17.0	23.4	18.5	20.3	18.1	19.2	16.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.9						4.9	.0	4.1	4.2	4.7	8.1	4.8	4.6	5.2	4.7	
TOT OBS	136	426	811	422	52	4	1851	16.1	365	119	298	111	333	130	345	150	
TOT PCT	7.3	23.0	43.8	22.8	2.8	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	2.3	15.1	24.8	7.3	.3		49.7	19.5	46.9	49.3	50.9	51.9	
NE	.3	1.7	1.8	.1	.0		3.8	16.0	3.3	3.8	4.4	3.8	
E	.4	.4	.1	.0	.0		.9	8.5	1.4	.7	1.0	.4	
SE	.9	1.6	.6	.1	.0		3.2	12.3	3.6	2.7	3.6	3.0	
S	1.6	4.4	2.3	.5	.0		8.8	13.7	9.6	8.5	7.9	9.2	
SW	1.3	2.2	.5	.1	.0		4.2	11.1	4.7	3.2	3.9	4.8	
W	1.6	1.7	.4	.1	.0		3.9	9.9	4.2	4.2	3.8	3.4	
NW	3.1	9.0	6.1	2.2	.1		20.5	15.8	22.2	22.1	19.7	16.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.9						4.9	.0	4.1	5.6	4.8	5.1	
TOT OBS	302	670	677	192	10	1851		16.1	434	409	463	495	
TOT PCT	16.3	36.2	36.6	10.4	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1884-1973

MAY

AREA 0037 EUREKA
40.7N 124.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	4.1	2.7	25.0	42.6	22.9	2.7	.0	15.9	100.0	484
0600	5.6	2.2	23.2	44.3	21.8	2.4	.5	16.1	100.0	409
1200	4.8	2.8	21.8	42.3	24.4	3.7	.2	16.5	100.0	463
1800	5.1	2.2	22.0	46.1	22.0	2.4	.2	16.0	100.0	495
TOT	90	46	426	811	422	52	4	16.1		1851
PCT	4.9	2.5	23.0	43.8	22.8	2.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	21.2	7.6	9.0	14.2		4.0
NE	1.8	.4	1.3	.7		3.8
E	.0	.1	.2	.4		6.6
SE	.5	.1	.8	1.8		6.2
S	1.1	.6	2.1	4.4		6.4
SW	.7	.7	1.0	1.3		5.2
W	.7	.8	.8	1.6		5.5
NW	6.1	2.3	4.8	6.4		4.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	.5	2.8		5.7
TOT OBS	404	197	247	407	1215	4.6
TOT PCT	33.3	12.9	20.3	33.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
2.6	.2	.7	2.5	7.5	5.7	1.0	.5	.2	.1	31.1	
.1	.0	.0	.2	.6	.7	.0	.1	.0	.0	2.4	
.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.2	
.8	.0	.0	.2	.3	.4	.2	.2	.0	.1	.9	
1.4	.0	.3	.9	1.1	1.1	.5	.1	.1	.1	2.4	
.3	.0	.1	.2	.7	.1	.3	.0	.0	.0	2.0	
.4	.0	.2	.2	.5	.5	.1	.1	.0	.1	1.8	
1.3	.1	.9	1.1	2.5	1.7	.9	.3	.2	.0	10.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.9	.0	.2	.2	.3	.2	.1	.0	.0	.0	1.8	
108	4	29	69	165	130	37	16	6	5	646	1215
8.9	.3	2.4	5.7	13.6	10.7	3.0	1.3	.5	.4	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.9	.9	.9	.9	.9	.9
= OR >5000	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2
= OR >3500	3.9	4.9	5.1	5.1	5.2	5.2	5.2	5.2
= OR >2000	9.3	14.9	15.6	15.8	16.0	16.0	16.0	16.0
= OR >1000	18.2	27.6	29.1	29.4	29.6	29.6	29.6	29.6
= OR >600	21.4	32.5	34.6	35.0	35.2	35.3	35.3	35.3
= OR >300	22.4	34.2	37.0	37.5	37.6	37.7	37.7	37.7
= OR >150	22.5	34.5	37.3	37.8	38.0	38.0	38.0	38.0
= OR >0	23.5	37.2	41.2	42.1	44.5	45.4	46.6	46.9
TOTAL	288	436	505	516	545	556	571	574

TOTAL NUMBER OF OBS: 1225

PCT FREQ NM <5/8: 53.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.0	9.5	8.4	8.8	6.2	3.9	6.3	7.3	21.8	7.8	1208

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1984-1973

MAY

AREA 0037 EUREKA
40.7N 124.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.1	.0	.2	.1	.1	.*	.4	.0	.8	2.0	
	TOT %	.3	.1	.0	.2	.1	.1	.*	.4	.0	.8	2.0	
1/2<1	PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	1.3	.0	.*	.1	.2	.*	.*	.2	.0	.4	2.3	
	TOT %	1.3	.0	.*	.1	.3	.*	.*	.2	.0	.4	2.4	
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.3	.*	.0	.0	.1	.0	.1	.3	.0	.0	.9	
	TOT %	.3	.*	.0	.0	.1	.1	.1	.3	.0	.0	.9	
2<5	PCP	.1	.0	.0	.1	.3	.1	.0	.1	.0	.1	.7	
	NO PCP	2.0	.1	.1	.2	.5	.1	.3	.5	.0	.4	4.2	
	TOT %	2.1	.1	.1	.3	.8	.2	.3	.5	.0	.5	4.9	
5<10	PCP	.5	.*	.1	.2	.6	.1	.1	.2	.0	.0	1.8	
	NO PCP	12.5	.9	.3	.9	1.8	.6	.6	4.0	.0	1.0	22.6	
	TOT %	13.0	1.0	.3	1.0	2.4	.7	.7	4.2	.0	1.0	24.4	
10+	PCP	.1	.1	.1	.0	.4	.3	.0	.1	.0	.0	1.0	
	NO PCP	33.6	2.9	.9	1.7	4.4	2.6	2.9	13.6	.0	2.3	64.5	
	TOT %	33.8	3.0	.5	1.7	4.8	2.9	2.9	13.8	.0	2.3	65.5	
TOT DBS													1640
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.*	.0	.0	.1	.0	.1	.0	.1	.0	.7	1.0	
	4-10	.1	.1	.0	.1	.1	.1	.*	.3	.0	.7		
	11-21	.2	.*	.0	.0	.0	.0	.0	.*	.0	.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.3	.1	.0	.2	.1	.1	.*	.4	.0	.7	1.9	
1/2<1	0-3	.*	.0	.0	.0	.1	.0	.0	.*	.0	.3	.5	
	4-10	.3	.0	.*	.1	.1	.0	.0	.1	.0	.6		
	11-21	.7	.0	.0	.*	.1	.*	.*	.*	.0	.9		
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0	.2		
	TOT %	1.2	.0	.*	.1	.2	.*	.*	.2	.0	.3	2.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.1	.2	.0	.4		
	11-21	.1	.0	.0	.0	.0	.0	.0	.3	.0	.4		
	22+	.2	.*	.0	.0	.0	.0	.0	.*	.0	.2		
	TOT %	.3	.*	.0	.0	.1	.1	.1	.5	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.3	.0	.1	.1	.2	.1	.2	.1	.0	1.1		
	11-21	.9	.*	.0	.1	.4	.1	.1	.4	.0	1.9		
	22+	1.0	.*	.0	.1	.2	.0	.0	.1	.0	1.3		
	TOT %	2.1	.1	.1	.3	.8	.2	.3	.6	.0	.5	4.9	
5<10	0-3	.1	.0	.1	.1	.1	.1	.*	.1	.0	1.0	1.5	
	4-10	2.0	.2	.1	.2	.3	.2	.5	1.1	.0	4.8		
	11-21	5.6	.6	.*	.5	1.3	.4	.2	1.9	.0	10.6		
	22+	5.5	.2	.1	.1	.4	.1	.0	1.2	.0	7.5		
	TOT %	13.2	.9	.3	.9	2.3	.7	.7	4.3	.0	1.0	24.5	
10+	0-3	.2	.*	.1	.*	.2	.2	.4	.2	.0	2.5	3.8	
	4-10	3.8	.7	.3	.6	1.8	1.2	1.3	4.1	.0	13.9		
	11-21	16.9	1.7	.1	1.1	2.4	1.1	.8	6.4	.0	30.5		
	22+	12.7	.5	.*	.1	.7	.2	.1	3.2	.0	17.4		
	TOT %	33.6	2.9	.5	1.8	5.1	2.7	2.8	13.8	.0	2.5	65.7	
TOT DBS													1744
TOT PCT													100.0

MAY

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1884-1973AREA 0037 EUREKA
40.7N 124.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NM <5/8 ANY HGT	TOTAL OBS
00003	8.1	.6	1.4	4.0	12.4	9.8	5.2	2.0	1.2	.6	45.4	54.6	346
06009	9.5	.4	2.3	3.4	12.2	7.6	.8	1.9	.0	.0	38.2	61.8	262
12015	8.9	.0	4.1	6.3	15.3	10.7	3.0	.4	.0	.4	49.1	50.9	271
18021	8.7	.3	2.2	8.2	13.4	13.4	2.5	.8	.5	.5	50.4	49.6	367
TOT	109	4	30	70	166	132	37	16	6	5	575	671	1246
PCT	8.7	.3	2.4	5.6	13.3	10.6	3.0	1.3	.5	.4	46.1	53.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.3	2.6	1.3	5.4	24.8	64.6	463
06009	2.0	2.8	.5	2.8	26.8	65.3	400
12015	2.8	1.8	1.1	4.8	22.9	66.5	436
18021	1.7	1.9	1.5	6.0	23.6	65.3	470
TOT	34	40	20	85	433	1157	1769
PCT	1.9	2.3	1.1	4.8	24.5	65.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.0	10.3	17.7	30.1	52.2	339
06009	9.6	12.7	17.7	21.5	60.8	260
12015	9.1	13.2	23.0	27.2	49.5	265
18021	8.9	11.9	21.9	29.9	48.2	361
TOT	108	146	246	338	641	1225
PCT	8.8	11.9	20.1	27.6	52.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.0	.2	.1	.0	4	.3
60/64	.0	.1	.0	.2	1.2	.6	.9	.5	44	3.5
55/59	.0	.0	.1	.9	2.4	7.1	14.0	6.8	390	31.0
50/54	.0	.0	.0	.1	3.0	7.5	27.6	19.9	733	58.2
45/49	.0	.0	.0	.0	.1	1.4	2.2	3.3	88	7.0
40/44	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	1	1	11	84	214	565	384	1260	100.0
PCT	.0	.1	.1	.9	6.7	17.0	44.8	30.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.8	.1	.8	.0	.0	.0	.0	.0	.0
1.5	.1	.1	.8	.1	.4	.3	.8	.0	.2
15.5	1.6	.4	.9	2.2	1.8	1.6	5.6	.0	1.3
29.8	2.9	.3	1.6	6.1	1.3	1.9	11.4	.0	2.7
3.9	.8	.0	.1	.5	.2	.1	1.5	.0	.6
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
51.0	4.7	.9	2.6	8.9	3.8	3.9	19.4	.0	4.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	65	62	54	50	46	43	54.5	491
06009	65	59	57	52	49	47	46	52.2	414
12015	61	59	57	52	48	45	41	51.9	465
18021	68	63	60	54	50	48	45	54.3	496
TOT	70	63	59	53	49	46	41	53.4	1866

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	7.9	21.2	43.0	26.3	84	316
06009	.0	.7	4.2	12.7	48.2	34.2	87	307
12015	.0	.0	4.1	12.4	50.0	33.4	87	314
18021	.0	1.8	9.7	20.9	38.6	28.9	83	339
TOT	0	13	84	216	572	391	85	1276

PERIOD: (PRIMARY) 1951-1973
(OVER-ALL) 1884-1973

MAY

AREA 0037 EUREKA
40.7N 124.6W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FDG	NO FDG
14/16	.0	.0	.0	.0	.1	.1	.2	6	.0	.4
11/13	.0	.0	.0	.0	.1	.5	.0	9	.0	.6
9/10	.0	.0	.1	.1	1.0	.3	.1	22	.1	1.4
7/8	.0	.0	.0	.7	4.1	.5	.0	79	.3	5.1
6	.0	.0	.1	3.0	.8	.5	.0	65	.3	4.1
5	.0	.0	.2	6.8	1.6	.2	.0	130	.8	8.0
4	.0	.0	.9	4.9	.9	.1	.0	100	.7	6.1
3	.0	.1	3.4	4.3	.8	.1	.0	128	1.2	7.5
2	.0	.1	5.8	4.5	.9	.0	.0	168	1.2	10.2
1	.0	.1	10.8	4.1	.7	.0	.0	233	2.3	13.5
0	.0	.4	7.5	4.5	.7	.1	.0	196	1.3	12.0
-1	.0	.3	4.1	2.8	.1	.1	.0	108	1.0	6.3
-2	.0	.4	4.1	1.6	.1	.0	.0	91	.5	5.7
-3	.0	.6	2.2	.7	.0	.0	.0	52	.7	2.8
-4	.0	.5	1.4	.7	.0	.0	.0	37	.1	2.4
-5	.0	.5	.8	.3	.1	.0	.0	24	.1	1.6
-6	.0	.1	.5	.1	.1	.0	.0	12	.0	.8
-7/-8	.2	.2	.2	.0	.1	.0	.0	10	.0	.7
-9/-10	.0	.4	.0	.0	.0	.0	.0	6	.0	.4
-11/-13	.0	.1	.0	.1	.0	.0	.0	2	.0	.1
TOTAL	3		620		182		4	1478	154	1324
PCT	.2	3.8	41.9	39.0	12.3	2.5	.3	100.0	10.4	89.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	2.9	.0	.0	.0	.0	3.1	.1	.6	.0	.0	.0	.0	.7
1-2	.1	1.6	4.8	.0	.0	.0	6.6	.0	.3	.5	.0	.0	.0	.7
3-4	.0	1.8	13.5	5.9	.0	.0	21.3	.0	.0	1.3	.5	.0	.0	1.8
5-6	.0	.0	4.1	4.4	.3	.0	8.8	.0	.0	.2	.2	.0	.0	.4
7	.0	.1	2.9	3.3	.5	.0	6.8	.0	.1	.0	.0	.0	.0	.2
8-9	.0	.1	1.5	1.6	.3	.0	3.5	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.8	1.4	.4	.0	2.7	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.5	1.4	.1	.0	2.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.5	.3	.1	1.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.6	28.2	19.6	2.3	.2	57.1	.1	1.0	2.0	.8	.0	.0	3.9

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.4
1-2	.1	.2	.1	.0	.0	.0	.4	.0	.2	.7	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.0	.0	.0	.6	.0	.7	1.2	.1	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0037 EUREKA
40.7N 124.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.1	.0	.0	.0	1.3	.2	.5	.0	.0	.0	.0	.7
1-2	.0	.6	1.0	.0	.0	.0	1.6	.1	.3	.3	.0	.0	.0	.8
3-4	.2	.3	1.2	.8	.0	.0	2.5	.*	.1	.6	.1	.0	.0	.9
5-6	.0	.1	.6	.2	.0	.0	1.0	.0	.*	.2	.1	.0	.0	.4
7	.0	.1	.2	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	3.2	1.2	.0	.0	6.9	.4	1.1	1.3	.2	.0	.0	3.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.6	.0	.0	.0	.0	.7	.2	1.1	.0	.0	.0	.0	1.3	
1-2	.0	.5	.1	.0	.0	.0	.6	.1	2.1	.5	.0	.0	.0	2.7	
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.6	3.2	.4	.0	.0	4.2	
5-6	.0	.2	.1	.0	.0	.0	.3	.0	.2	2.1	.6	.1	.0	3.1	
7	.0	.1	.0	.0	.0	.0	.1	.0	.1	.9	1.0	.1	.0	2.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6	.5	.3	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.1	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.5	
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.*	.0	.0	.0	.*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	.8	.0	.0	.0	2.6	.4	4.1	7.8	3.2	.8	.*	16.2	92.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	7.3	.1	.0	.0	.0	16.0	
1-2	.6	6.0	8.0	.0	.0	.0	14.6	
3-4	.2	3.1	20.6	7.8	.0	.0	31.8	
5-6	.0	.7	7.3	5.6	.4	.0	14.0	
7	.0	.6	4.0	4.4	.7	.0	9.6	
8-9	.0	.2	2.4	2.1	.6	.0	5.3	
10-11	.0	.0	1.0	1.8	.4	.0	3.2	
12	.0	.0	.7	1.5	.2	.0	2.4	
13-16	.0	.0	.1	1.7	.4	.1	2.4	
17-19	.0	.0	.1	.1	.2	.0	.4	
20-22	.0	.0	.0	.1	.1	.1	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	17.9	44.2	25.1	3.1	.2	100.0	893

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	5.7	11.3	5.2	2.9	1.8	1.3	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	435	4
6-7	.1	4.8	12.0	12.9	8.0	2.1	2.2	1.1	1.1	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	805	5
8-9	.0	.7	1.8	3.1	2.9	1.8	1.6	.9	.6	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	206	8
10-11	.0	.2	.1	.9	.9	.8	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	8
12-13	.0	.0	.4	.1	.5	.1	.0	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	24	9
>13	.0	.0	.0	.1	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
INDBT	1.9	4.4	9.9	4.6	8.6	4.4	3.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	4
TOTAL	44	163	374	319	195	102	87	48	41	18	10	2	2	0	0	0	0	0	0	1407	6
PCT	3.1	11.7	28.6	22.7	13.9	7.2	6.2	3.4	2.9	1.3	.7	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1875-1973

JUNE

AREA 0037 EUREKA
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WE
N	.1	.1	1.0	.0	.0	.0	.0	1.2	.4	.0	9.2	.3	11.6	.0	77.2
NE	.0	.0	3.9	.0	.0	.0	.0	5.9	.4	.0	8.0	.0	21.9	.0	63.7
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	76.5
SE	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	17.7	4.0	3.2	.0	71.0
S	1.4	.0	8.9	.0	.0	.0	.0	10.3	7.2	.0	16.4	1.0	10.6	.0	54.5
SW	8.7	.0	3.3	.0	.0	.0	.0	12.0	3.3	.0	19.6	2.2	5.4	.0	57.6
W	1.4	1.9	1.9	.0	.0	.0	.0	5.3	5.8	.0	12.5	1.9	3.4	.0	71.2
NW	.5	.0	1.4	.0	.0	.0	.0	1.9	1.5	.0	10.2	.3	3.9	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	6.0	.0	.0	.0	.0	7.1	.0	.0	23.8	2.4	9.5	.0	57.1
TOT PCT	.6	.1	2.1	.0	.0	.0	.0	2.9	1.4	.0	11.4	.6	9.4	.0	74.3
TOT OBS:	1386														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WE
00Z03	.3	.3	1.5	.0	.0	.0	.0	2.1	.9	.0	8.6	1.2	8.6	.0	78.6
06Z09	.6	.0	1.6	.0	.0	.0	.0	2.3	1.3	.0	9.4	.3	12.0	.0	74.8
12Z15	1.1	.0	3.8	.0	.0	.0	.0	4.9	1.6	.0	13.7	.3	7.8	.0	71.7
18Z21	.5	.3	1.6	.0	.0	.0	.0	2.3	1.6	.0	13.0	.8	9.4	.0	72.9
TOT PCT	.6	.1	2.1	.0	.0	.0	.0	2.9	1.4	.0	11.4	.6	9.4	.0	74.4
TOT OBS:	1400														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.2	8.8	24.8	13.3	2.2	.0		50.3	18.2	51.9	48.1	49.5	48.5	51.4	52.3	50.8	45.5
NE	.2	.8	2.3	.5	.1	.0		3.9	15.3	2.4	6.5	3.0	7.0	4.8	6.3	2.0	5.7
E	.2	.3	.1	.1	.0	.0		.7	8.4	.3	.0	1.2	.0	.7	1.9	.5	1.0
SE	.3	1.7	.5	.0	.0	.0		2.5	8.7	2.8	2.2	1.6	1.5	3.0	.5	3.0	3.9
S	.2	2.8	2.4	.3	.0	.0		5.7	11.5	4.6	10.9	6.8	7.3	3.9	3.3	5.1	8.9
SW	.4	2.0	.8	.1	.0	.0		3.4	8.7	4.5	3.3	2.1	1.3	2.0	4.7	4.0	5.3
W	.3	2.3	.9	.1	.0	.0		3.7	9.9	5.0	.0	5.5	2.8	3.0	2.8	2.8	5.1
NW	.9	7.6	10.0	4.2	.4	.0		23.0	15.1	25.5	23.6	23.4	22.8	23.5	17.1	24.2	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.8	.0	2.9	5.4	6.9	9.0	7.7	11.2	7.5	7.3
TOT OBS	165	412	638	290	42	0	1567		14.8	308	92	231	100	300	107	306	123
TOT PCT	10.5	26.3	42.0	18.5	2.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	3.5	19.0	20.5	7.1	.3			50.3	18.2	51.1	49.2	51.7	49.3		
NE	.4	2.1	1.3	.2	.0			3.9	15.3	3.3	4.2	5.2	3.1		
E	.3	.3	.1	.0	.0			.7	8.4	.3	.8	1.0	.6		
SE	1.0	1.3	.2	.0	.0			2.5	8.7	2.7	1.6	2.3	3.3		
S	1.3	3.2	1.1	.1	.0			5.7	11.5	6.1	6.9	3.7	6.2		
SW	1.2	1.9	.2	.0	.0			3.4	8.7	4.3	1.8	2.7	4.4		
W	1.0	2.1	.5	.0	.0			3.7	9.9	3.8	4.7	2.9	3.4		
NW	3.1	11.0	6.9	2.0	.1			23.0	15.1	25.1	23.2	21.8	22.2		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	6.8							6.8	.0	3.5	7.6	8.6	7.5		
TOT OBS	292	642	481	147	5	1567			14.8	170	331	407	429		
TOT PCT	18.6	41.0	30.7	9.4	.3			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1949-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.5	3.8	30.3	40.5	19.5	2.5	.0	15.1	100.0	400
06009	7.6	2.7	26.0	42.9	19.0	1.8	.0	14.7	100.0	331
12015	8.6	3.7	25.3	40.8	17.4	4.2	.0	14.8	100.0	407
18021	7.5	4.7	23.8	43.8	18.2	2.1	.0	14.6	100.0	429
TOT	106	59	412	658	290	42	0	14.8		1567
PCT	6.8	3.8	26.3	42.0	18.5	2.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	20.9	6.4	9.2	16.1		4.2
NE	.8	.8	1.1	1.4		5.3
E	.1	.1	.3	.2		5.6
SE	.4	.1	.6	1.3		6.2
S	.8	.1	.9	3.4		6.4
SW	.2	.2	.3	2.5		7.0
W	.6	.3	1.4	1.4		6.0
NW	7.4	2.6	3.9	8.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.9	4.6		7.0
TOT OBS	330	112	193	408	1043	4.8
TOT PCT	31.6	10.7	18.5	39.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.9	.1	1.5	4.4	5.5	4.8	1.8	.1	.4	.1	31.0	
NE	.1	.0	.2	.5	.6	.8	.1	.0	.0	.0	1.9	
E	.1	.0	.0	.1	.1	.2	.0	.0	.0	.0	.2	
SE	.3	.2	.0	.1	.7	.1	.2	.0	.0	.1	.7	
S	.7	.1	.2	.8	.8	.9	.4	.2	.0	.1	1.1	
SW	.4	.0	.2	1.1	.5	.2	.0	.0	.0	.0	.8	
W	.4	.1	.0	.3	.7	.4	.0	.1	.0	.0	1.8	
NW	1.6	.2	.9	2.1	2.5	2.3	.5	.0	.1	.1	11.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.2	.2	1.1	1.6	.7	.2	.1	.0	.0	.8	
TOT OBS	82	9	32	108	134	109	34	6	4	5	520	1043
TOT PCT	7.9	.9	3.1	10.4	12.8	10.5	3.3	.6	.4	.5	49.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
>10	.5	.8	.9	.9
>5000	1.0	1.3	1.4	1.4
>3500	2.6	4.4	4.6	4.7
>2000	11.1	14.9	15.2	15.3
>1000	19.2	26.9	27.8	27.9
>600	23.2	35.6	37.8	38.0
>300	24.3	37.6	40.7	41.1
>150	24.4	38.2	41.4	41.8
>0	24.4	38.6	42.4	43.9
TOTAL	297	406	446	462

TOTAL NUMBER OF OBS: 1052

PCT FREQ NM <5/8: 49.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.2	9.6	10.2	7.3	4.0	3.0	4.7	6.0	28.6	7.4	1091

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	1.6	.0	.1	.1	.1	.3	.1	.8	.0	.6	3.8	
	TOT %	1.7	.1	.1	.1	.1	.3	.1	.8	.0	.6	3.9	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	1.1	.1	.0	.1	.3	.1	.0	.5	.0	.3	2.3	
	TOT %	1.2	.1	.0	.1	.3	.1	.0	.5	.0	.3	2.6	
1<2	PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.6	.0	.0	.0	.2	.1	.1	.3	.0	.4	1.7	
	TOT %	.7	.0	.0	.0	.3	.1	.1	.3	.0	.4	2.0	
2<5	PCP	.2	.0	.0	.0	.1	.1	.0	.1	.0	.1	.6	
	NO PCP	1.6	.2	.1	.3	.2	.4	.1	1.0	.0	.3	4.0	
	TOT %	1.8	.2	.1	.3	.3	.4	.1	1.0	.0	.4	4.6	
5<10	PCP	.1	.1	.0	.0	.3	.0	.1	.2	.0	.3	1.2	
	NO PCP	11.9	1.5	.1	.5	1.2	.8	.8	4.9	.0	1.8	23.6	
	TOT %	12.0	1.7	.1	.5	1.5	.8	.9	5.1	.0	2.1	24.9	
10+	PCP	.1	.1	.0	.0	.1	.2	.1	.1	.0	.0	.6	
	NO PCP	34.7	2.2	.3	1.2	2.7	1.3	2.4	14.4	.0	2.2	61.9	
	TOT %	34.7	2.3	.3	1.2	2.8	1.5	2.5	14.5	.0	2.2	62.1	
TOT OBS													1383
TOT PCT													
52.2 4.3 .6 2.2 5.2 3.3 3.8 22.3 .0 6.1 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.6	.7	
	4-10	.5	.0	.0	.2	.0	.1	.0	.4	.0		1.3	
	11-21	.9	.0	.1	.0	.1	.2	.1	.3	.0		1.6	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0		.3	
	TOT %	1.7	.1	.1	.2	.1	.3	.1	.8	.0	.6	3.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.1	.0	.0	.1	.1	.1	.0	.3	.0		.7	
	11-21	.6	.1	.0	.0	.2	.0	.0	.1	.0		1.0	
	22+	.4	.0	.0	.0	.0	.0	.0	.1	.0		.5	
	TOT %	1.1	.1	.0	.1	.3	.1	.0	.5	.0	.3	2.5	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	.5	
	4-10	.1	.0	.0	.1	.1	.0	.1	.2	.0		.6	
	11-21	.5	.0	.0	.0	.1	.1	.0	.1	.0		.7	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.6	.0	.1	.1	.3	.1	.1	.3	.0	.4	2.0	
2<5	0-3	.1	.0	.0	.0	.0	.1	.0	.1	.0	.5	.9	
	4-10	.3	.0	.1	.1	.2	.2	.0	.4	.0		1.3	
	11-21	.8	.2	.0	.2	.2	.1	.0	.5	.0		1.9	
	22+	.6	.0	.0	.0	.0	.0	.0	.1	.0		.7	
	TOT %	1.9	.2	.1	.3	.3	.4	.1	1.1	.0	.5	4.8	
5<10	0-3	.3	.1	.0	.0	.1	.1	.0	.2	.0	2.0	2.7	
	4-10	1.7	.3	.1	.3	.7	.6	.6	1.3	.0		5.6	
	11-21	5.7	1.0	.1	.2	.7	.2	.2	2.3	.0		10.4	
	22+	4.0	.3	.0	.0	.1	.0	.0	1.4	.0		5.9	
	TOT %	11.7	1.6	.1	.5	1.6	.9	.9	5.3	.0	2.0	24.6	
10+	0-3	.6	.1	.1	.3	.2	.3	.4	.4	.0	2.6	4.8	
	4-10	6.0	.5	.1	.7	1.4	.9	1.5	4.8	.0		15.9	
	11-21	16.9	1.2	.0	.2	1.2	.3	.4	6.7	.0		27.0	
	22+	11.0	.4	.1	.0	.1	.1	.1	3.0	.0		14.6	
	TOT %	34.4	2.1	.3	1.2	2.8	1.5	2.4	13.0	.0	2.6	62.3	
TOT OBS													1486
TOT PCT													
51.4 4.1 .6 2.4 5.4 3.3 3.6 23.0 .0 6.3 100.0													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.1	.7	1.8	10.4	11.2	8.6	2.9	.0	.0	.0	41.7	58.3	278
06009	7.7	.0	1.9	7.7	11.5	8.7	1.4	.5	1.4	1.4	42.3	57.7	208
12015	10.1	1.4	5.4	7.9	13.7	11.9	3.6	1.1	.0	.7	56.0	44.0	277
18021	6.7	1.0	2.9	13.0	13.3	11.7	4.4	.6	.3	.0	54.0	46.0	313
TOT	82	9	33	108	135	112	35	6	4	5	529	549	1078
PCT	7.6	.8	3.1	10.0	12.5	10.4	3.2	.6	.4	.5	49.1	50.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.9	2.9	1.6	4.0	24.3	65.3	378
06009	3.7	1.9	1.2	4.3	26.4	62.4	322
12015	5.9	2.6	2.8	5.1	25.6	58.1	391
18021	3.9	2.7	2.0	5.6	22.7	63.2	410
TOT	58	38	29	72	370	934	1501
PCT	3.9	2.5	1.9	4.8	24.7	62.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	9.2	21.3	22.1	58.6	272
06009	7.9	9.9	18.7	25.1	56.2	203
12015	10.4	17.8	27.9	30.1	42.0	269
18021	6.8	12.0	27.6	29.5	42.9	308
TOT	82	130	256	283	513	1052
PCT	7.8	12.4	24.3	26.9	48.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.0	.1	.0	2	.2
65/69	.0	.0	.1	.1	.8	.2	.4	.0	28	2.2
60/64	.0	.1	.0	.3	2.0	4.7	3.9	1.8	131	12.7
55/59	.0	.0	.0	.2	.9	9.9	24.1	11.5	553	46.6
50/54	.0	.0	.0	.0	.2	2.4	16.1	18.2	438	36.9
45/49	.0	.0	.0	.0	.0	.0	.2	1.3	17	1.4
TOTAL	0	1	1	6	45	212	528	394	1187	100.0
PCT	.0	.1	.1	.5	3.8	17.9	44.5	33.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
70/74	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
65/69	.5	.2	.0	.3	.2	.1	.2	.6	.0	.2
60/64	6.0	.4	.1	.4	.7	.5	.9	3.7	.0	.2
55/59	24.0	1.8	.5	1.1	2.6	1.4	1.6	10.4	.0	3.1
50/54	20.3	2.1	.1	.7	2.1	1.1	.9	7.3	.0	2.4
45/49	1.2	.1	.0	.0	.0	.0	.0	.2	.0	.0
TOTAL	52.2	4.5	.6	2.4	5.6	3.2	3.6	22.1	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	69	65	57	53	50	48	57.8	400
06009	64	63	60	54	50	48	46	54.7	334
12015	63	61	58	54	50	48	45	54.0	405
18021	70	67	64	56	51	49	46	56.9	423
TOT	72	66	63	55	50	49	45	55.9	1562

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.4	8.1	24.5	45.3	20.1	82	278
06009	.0	.7	1.1	13.4	45.3	37.5	87	267
12015	.0	.0	1.5	10.5	48.0	40.0	88	325
18021	.0	.6	4.3	21.8	39.0	34.4	85	326
TOT	0	8	46	214	530	398	86	1196

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1875-1973

JUNE

TABLE 17

AREA 0037 EUREKA
40.7N 124.8W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.1	.2	.1	4	.0	.3
14/16	.0	.0	.0	.0	.1	.2	.2	6	.1	.4
11/13	.0	.0	.0	.1	.8	.2	.2	16	.1	1.1
9/10	.0	.0	.2	1.3	.6	.5	.0	33	.2	2.3
7/8	.0	.1	1.2	2.9	1.3	.5	.0	79	.4	5.7
6	.0	.0	2.3	1.8	1.1	.0	.1	69	.8	4.5
5	.1	.3	5.4	2.2	.9	.0	.0	121	1.5	7.8
4	.0	.7	5.6	2.1	.9	.0	.0	121	1.2	8.0
3	.0	1.2	7.0	2.1	.5	.0	.0	142	1.6	9.2
2	.0	4.7	4.7	4.1	.5	.1	.0	189	1.5	12.5
1	.2	3.3	4.9	3.2	1.0	.0	.0	164	1.0	11.5
0	.1	2.5	4.7	2.5	.5	.0	.0	135	1.4	8.9
-1	.0	.8	4.0	1.4	.1	.0	.0	83	.5	5.8
-2	.2	.7	3.1	.9	.1	.0	.0	64	.3	4.6
-3	.1	.5	1.5	.7	.1	.0	.0	37	.5	2.3
-4	.2	.3	.5	.3	.0	.0	.0	17	.2	1.1
-5	.0	.2	.2	.3	.1	.0	.0	10	.1	.7
-6	.0	.2	.3	.0	.0	.0	.0	7	.0	.5
-7/-8	.0	.1	.5	.2	.1	.0	.0	12	.2	.8
-9/-10	.1	.2	.2	.0	.0	.0	.0	6	.0	.5
TOTAL	10	206	607	342	112	25	7	1309	151	1158
PCT	.8	15.7	46.4	26.1	8.6	1.9	.5	100.0	11.5	88.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.9	.0	.0	.0	.0	3.7	.1	.7	.1	.0	.0	.0	1.0
1-2	.3	3.3	8.2	.0	.0	.0	11.8	.0	.3	1.0	.0	.0	.0	1.4
3-4	.0	2.2	12.4	3.4	.0	.0	18.0	.0	.8	1.4	.1	.0	.0	1.5
5-6	.0	.3	5.6	2.8	.0	.0	8.7	.0	.0	.3	.3	.0	.0	.5
7	.0	.0	2.1	1.4	.4	.0	4.0	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.5	1.2	.2	.0	2.0	.0	.0	.8	.8	.0	.0	.1
10-11	.0	.0	.1	1.1	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.5	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.7	29.1	10.7	1.3	.0	50.9	.1	1.2	3.1	.5	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.1	.0	.0	.0	.5	.2	.4	.1	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.8
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.6	.0	.0	.0	.0	.6
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.8	.0	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	.1	.0	.0	.8	.2	1.5	.9	.0	.0	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0037 EUREKA
40.7N 124.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.7	1.2	.0	.0	.0	1.9	.1	.3	.7	.0	.0	.0	1.2
3-4	.0	.3	.8	.0	.0	.0	1.1	.0	.1	.2	.0	.0	.0	.3
5-6	.0	.1	.3	.1	.0	.0	.6	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	2.4	.1	.0	.0	5.1	.1	2.0	1.1	.1	.0	.0	3.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.7	.0	.0	.0	.0	.8	.2	2.2	.0	.0	.0	.0	2.4	
1-2	.0	.7	.3	.0	.0	.0	.9	.4	2.4	2.3	.0	.0	.0	5.4	
3-4	.0	.2	.2	.0	.0	.0	.4	.0	1.7	3.0	.3	.0	.0	5.2	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.8	2.3	.5	.0	.0	3.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	.7	.0	.0	2.7	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.2	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	.6	.0	.0	.0	2.4	.6	7.6	10.3	2.3	.2	.0	21.3	91.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.7	9.6	.4	.0	.0	.0	20.7	
1-2	.8	8.2	14.2	.0	.0	.0	23.3	
3-4	.0	5.3	17.9	4.0	.0	.0	27.2	
5-6	.0	1.5	8.9	3.8	.0	.0	14.2	
7	.0	.3	4.5	2.2	.4	.0	7.4	
8-9	.0	.3	1.2	1.5	.3	.0	3.3	
10-11	.0	.0	.4	1.4	.0	.0	1.8	
12	.0	.0	.1	.7	.1	.0	1.0	
13-16	.0	.1	.0	.4	.5	.0	1.1	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.4	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	29.3	47.7	14.0	1.3	.0	100.0	731

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	6.9	15.8	6.7	3.8	2.2	.7	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	427	4
6-7	.0	7.4	9.6	7.4	4.9	3.1	.9	1.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	392	5
8-9	.0	1.3	2.0	2.3	1.8	2.2	1.4	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	7
10-11	.0	.4	.8	.9	.6	.5	.2	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	7
12-13	.0	.0	.8	.4	.0	.2	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	8
>13	.0	.0	.0	.4	.4	.1	.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	16	9
INDET	2.6	.3	.6	.5	.6	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	3
TOTAL	4.9	18.9	32.9	20.4	13.4	9.5	4.2	2.9	3.6	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1111	5
PCT	4.1	16.7	29.6	16.4	12.1	8.6	3.8	2.6	3.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1861-1973

JULY

AREA 0037 EUREKA
40.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	NO SIG WEA
N	.1	.0	1.7	.0	.0	.0	.0	1.7	.0	.1	19.2	.8	11.4	.1	66.7
NE	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	18.1	1.8	5.4	.0	72.3
E	.0	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	43.9	.0	.0	.0	49.1
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.7	.0	49.3
S	1.7	.0	1.7	.0	.0	.0	.0	3.4	.0	.0	38.7	1.7	7.7	.0	48.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.0	5.0	9.0	.0	58.0
W	.0	.0	3.7	.0	.0	.0	.0	3.7	3.7	.0	32.7	6.3	3.7	.0	49.3
NW	.1	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	11.3	.7	5.6	.0	80.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	8.9	.0	51.1
TOT PCT	.1	.0	1.6	.0	.0	.0	.0	1.7	.1	.1	20.4	1.0	9.1	.1	67.6
TOT OBS:	1983														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	NO SIG WEA
0000	.6	.0	.3	.0	.0	.0	.0	.9	.0	.0	18.1	1.2	13.7	.0	66.1
0600	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.3	17.8	.3	4.6	.0	75.6
1200	.0	.0	3.0	.0	.0	.0	.0	3.0	.3	.0	23.3	1.1	8.6	.3	63.2
1800	.3	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	23.2	1.6	11.3	.0	62.3
TOT PCT TOT OBS:	.2 1440	.0	1.7	.0	.0	.0	.0	1.8	.1	.1	20.8	1.0	9.6	.1	66.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	7.8	27.6	20.3	2.0	.0		58.4	19.4		55.2	51.2	60.2	61.1	57.7	65.7	61.8	53.2
NE	.1	.8	1.3	.6	.0	.0		2.8	13.7		1.5	4.1	3.9	3.7	3.6	3.2	1.3	2.0
E	.3	.5	.1	.1	.0	.0		.9	7.2		1.0	1.2	1.1	1.1	.8	.0	.9	.9
SE	.6	1.4	.8	.1	.0	.0		2.8	9.1		2.9	2.9	2.4	3.4	3.2	1.6	3.0	2.7
S	.5	2.4	1.3	.0	.0	.0		4.3	8.9		5.1	4.1	4.3	5.7	2.0	3.8	5.2	5.4
SW	.3	1.0	.4	.0	.1	.0		1.8	8.4		1.9	.0	3.3	.0	1.9	.0	1.9	1.4
W	.4	.8	.6	.1	.0	.0		1.8	9.3		1.2	1.2	1.4	1.1	1.9	4.1	1.3	4.1
NW	.7	6.3	10.7	3.9	.7	.0		23.8	16.6		29.0	31.8	21.3	19.3	23.9	18.4	19.7	27.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		2.4	3.5	1.8	4.5	3.1	1.1	4.7	2.7
TOT DBS	109	328	600	423	43	0	1963		16.7		297	85	277	88	316	91	298	111
TOT PCT	7.0	21.0	42.2	27.1	2.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	3.3	17.2	28.8	8.8	.3		58.4	19.4		54.3	40.4	59.3	59.3	
NE	.2	1.3	1.0	.3	.0		2.8	13.7		2.1	3.8	3.9	1.5	
E	.6	.2	.1	.0	.0		.9	7.2		1.0	1.1	.8	.9	
SE	.9	1.5	.4	.0	.0		2.8	9.1		1.9	2.7	2.9	2.9	
S	1.5	2.5	.3	.0	.0		4.3	8.9		4.8	4.7	2.4	3.3	
SW	.9	.8	.0	.1	.0		1.8	8.4		1.4	2.5	1.3	1.8	
W	.9	.6	.3	.1	.0		1.8	9.3		1.2	1.4	2.4	2.1	
NW	3.3	8.7	9.2	2.4	.1		23.8	16.6		29.6	21.0	22.7	21.9	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.4						3.4	.0		2.6	2.5	4.2	4.2	
TOT DBS	237	311	626	182	7	1963		16.7		382	365	407	409	
TOT PCT	15.2	32.7	40.1	11.6	.4		100.0			100.0	100.0	100.0	100.0	

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TABLE 4

AREA 0037 EUREKA
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.6	3.9	21.5	43.7	24.1	4.2	.0	16.8	100.0	362
06009	2.5	3.6	19.7	41.9	30.1	2.2	.0	17.3	100.0	365
12015	4.2	2.9	21.1	40.8	28.3	2.7	.0	16.8	100.0	407
18021	4.2	3.9	21.5	42.5	25.9	2.0	.0	16.0	100.0	409
TOT	33	36	328	660	423	43	0	16.7		1563
PCT	3.4	3.6	21.0	42.2	27.1	2.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	22.6	3.5	6.2	28.5		4.7
NE	.9	.3	.3	1.4		3.1
E	.2	.0	.1	.4		3.5
SE	.2	.0	.3	2.0		7.2
S	.7	.2	.3	3.3		6.5
SW	.2	.0	.4	1.2		6.7
W	.3	.0	.2	1.1		6.3
NW	8.9	1.3	3.1	7.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.7	2.5		6.4
TOT OBS	361	58	124	504	1047	4.9
TOT PCT	34.5	5.5	11.8	48.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	10.1	.3	1.7	5.3	9.7	4.0	1.1	.2	.4	.0	28.0	
NE	.4	.1	.1	.1	.4	.3	.0	.0	.0	.0	1.4	
E	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.2	
SE	1.2	.0	.0	.2	.6	.2	.1	.0	.0	.0	.2	
S	1.9	.2	.4	.5	.6	.2	.1	.0	.0	.0	.9	
SW	.7	.0	.1	.1	.4	.2	.0	.0	.0	.0	.3	
W	.2	.0	.1	.3	.5	.2	.1	.0	.0	.0	.4	
NW	1.5	.0	.5	1.7	3.0	2.5	.4	.1	.0	.0	11.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.1	.0	.2	.4	.2	.2	.0	.0	.1	1.1	
TOT OBS	187	7	31	89	162	84	21	3	5	1	457	1047
TOT PCT	17.9	.7	3.0	8.5	15.5	8.0	2.0	.3	.5	.1	43.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
= OR >3500	2.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR >2000	8.2	10.8	11.0	11.1	11.1	11.1	11.1	11.1
= OR >1000	16.2	24.7	26.1	26.2	26.2	26.2	26.2	26.2
= OR >600	19.4	32.0	34.2	34.6	34.6	34.9	34.9	34.9
= OR >300	20.2	34.1	36.7	37.2	37.6	37.8	37.9	38.0
= OR >150	20.3	34.4	37.1	37.7	38.2	38.4	38.5	38.6
= OR >0	21.1	36.2	41.5	43.4	46.5	50.5	56.8	57.2
TOTAL	228	392	449	470	503	566	615	619

TOTAL NUMBER OF OBS: 1082

PCT FREQ NM <5/8: 42.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
22.3	7.9	6.4	3.0	2.7	2.6	3.7	4.8	29.6	1132

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	4.8	.3	.1	.6	.9	.2	.2	1.1	.0	.5	8.8	
	TOT %	5.0	.3	.1	.6	.9	.2	.2	1.1	.0	.5	9.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.9	.2	.1	.3	.2	.2	.5	.0	.1	.1	3.5	
	TOT %	1.9	.2	.1	.3	.2	.2	.5	.0	.1	.1	3.5	
1<2	PCP	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.4	
	NO PCP	.8	.0	.0	.1	.1	.1	.3	.0	.2	.1	1.7	
	TOT %	1.1	.1	.1	.1	.1	.1	.4	.0	.2	.1	2.1	
2<5	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	3.6	.1	.1	.4	.2	.3	.1	.6	.0	.3	5.7	
	TOT %	3.7	.1	.1	.4	.2	.3	.1	.7	.0	.3	5.9	
5<10	PCP	.3	.0	.0	.0	.1	.0	.0	.2	.0	.0	.7	
	NO PCP	14.1	.7	.3	.3	1.0	.5	.3	5.6	.0	.4	23.1	
	TOT %	14.4	.7	.3	.3	1.1	.5	.3	5.7	.0	.4	23.7	
10+	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	33.5	1.8	.3	1.2	1.5	.7	1.0	13.9	.0	1.7	55.6	
	TOT %	33.6	1.8	.3	1.2	1.5	.7	1.1	13.9	.0	1.7	55.8	
TOT OBS													1383
TOT PCT													59.7 3.0 1.0 2.7 4.2 1.8 1.9 22.3 .0 3.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.2	
	4-10	1.2	.1	.1	.4	.5	.1	.1	.4	.0	.2	2.8	
	11-21	2.3	.1	.0	.1	.3	.1	.1	.4	.0	.3	3.4	
	22+	1.2	.1	.0	.0	.0	.0	.0	.3	.0	.1	1.5	
	TOT %	4.9	.3	.1	.6	.8	.2	.2	1.2	.0	.3	8.8	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.4	
	4-10	.3	.0	.1	.1	.3	.0	.1	.2	.0	.1	1.1	
	11-21	.9	.0	.0	.0	.1	.0	.0	.1	.0	.1	1.1	
	22+	.7	.0	.0	.0	.0	.0	.0	.1	.0	.1	.8	
	TOT %	1.9	.0	.2	.1	.3	.0	.2	.5	.0	.2	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.3	
	4-10	.1	.0	.1	.0	.0	.1	.0	.2	.0	.1	.5	
	11-21	.7	.1	.0	.0	.1	.0	.1	.0	.0	.1	.9	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0	.1	.4	
	TOT %	1.1	.1	.1	.1	.2	.1	.1	.4	.0	.2	2.2	
2<5	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	.4	
	4-10	.5	.0	.0	.2	.1	.1	.1	.0	.0	.1	1.1	
	11-21	2.0	.1	.0	.1	.0	.2	.0	.5	.0	.2	2.8	
	22+	1.4	.0	.1	.0	.0	.0	.0	.3	.0	.1	1.8	
	TOT %	3.9	.1	.1	.4	.2	.3	.1	.8	.0	.3	6.1	
5<10	0-3	.2	.0	.1	.2	.2	.1	.0	.1	.0	.4	1.3	
	4-10	1.8	.2	.1	.1	.6	.2	.1	.7	.0	.3	3.8	
	11-21	5.6	.3	.0	.1	.2	.0	.2	2.3	.0	.6	8.8	
	22+	6.8	.2	.0	.0	.1	.1	.0	2.3	.0	.6	9.6	
	TOT %	14.4	.7	.2	.4	1.1	.4	.3	5.6	.0	.4	23.5	
10+	0-3	.4	.1	.0	.3	.1	.0	.2	.3	.0	1.7	3.0	
	4-10	3.9	.5	.1	.3	.9	.5	.5	4.3	.0	.9	10.9	
	11-21	16.9	.8	.1	.5	.6	.1	.3	6.8	.0	.9	26.1	
	22+	12.4	.4	.0	.1	.0	.0	.1	2.9	.0	.9	15.9	
	TOT %	33.6	1.7	.2	1.2	1.6	.7	1.0	14.3	.0	1.7	56.0	
TOT OBS													1483
TOT PCT													59.8 2.9 1.0 2.7 4.2 1.7 1.8 22.7 .0 3.3 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	14.9	.0	3.0	6.7	11.2	5.9	3.0	.4	.4	.0	45.4	54.6	269
06009	20.0	.8	1.9	8.5	11.5	7.7	1.9	.0	.8	.0	53.1	46.9	260
12015	22.8	1.1	4.1	9.0	16.0	9.7	1.1	.4	.0	.0	64.2	35.8	268
18021	16.0	.7	3.0	10.3	20.0	8.3	2.7	.3	.7	.3	62.3	37.7	300
TOT	201	7	33	95	163	87	24	3	5	1	619	478	1097
PCT	18.3	.6	3.0	8.7	14.9	7.9	2.2	.3	.5	.1	56.4	43.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	6.4	4.5	1.6	5.6	27.1	54.9	377
06009	10.7	2.5	1.4	3.0	23.3	59.2	365
12015	10.6	2.8	4.5	6.6	21.0	54.5	396
18021	9.2	4.7	1.5	8.7	23.7	52.1	401
TOT	142	36	35	93	365	848	1539
PCT	9.2	3.6	2.3	6.0	23.7	55.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	15.0	18.8	28.2	19.9	51.9	266
06009	20.6	23.7	32.4	22.5	45.1	253
12015	23.0	28.7	38.9	26.4	34.7	265
18021	16.4	20.1	34.6	29.2	30.2	298
TOT	202	246	363	267	452	1082
PCT	18.7	22.7	33.3	24.7	41.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.1	.3	.1	.0	6	.6
65/69	.0	.0	.0	.3	.6	.8	1.9	.4	44	4.1
60/64	.0	.0	.0	.0	1.5	6.3	9.7	3.2	225	20.9
55/59	.0	.0	.0	.0	.6	4.4	26.5	17.2	526	48.7
50/54	.0	.0	.0	.0	.1	.3	7.5	17.1	271	25.1
45/49	.0	.0	.0	.0	.0	.0	.1	.6	7	.6
TOTAL	0	0	0	4	31	135	495	414	1079	100.0
PCT	.0	.0	.0	.4	2.9	12.5	45.9	38.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.2	.0	.1
1.5	.0	.1	.1	.2	.1	.2	1.9	.0	.1
11.1	.3	.2	.4	1.0	.6	.8	5.4	.0	1.2
30.9	1.9	.4	.9	1.8	.6	.5	10.1	.0	1.6
16.4	.6	.1	.8	1.3	.5	.6	4.4	.0	.5
.3	.1	.2	.0	.0	.0	.0	.0	.0	.0
60.4	2.9	.9	2.2	4.2	1.8	2.1	22.0	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	68	64	58	53	51	50	58.7	399
06009	68	64	61	55	52	50	48	56.2	376
12015	70	64	61	55	51	49	47	55.3	416
18021	71	69	65	57	52	50	50	57.8	416
TOT	73	68	64	56	52	50	47	57.0	1607

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	5.5	19.1	47.3	27.3	85	236		
06009	.0	.0	2.2	8.0	40.7	49.1	89	275		
12015	.0	.7	.7	6.0	43.3	49.3	90	300		
18021	.0	.0	3.0	15.8	50.3	30.9	86	298		
TOT	0	4	31	136	513	445	88	1129		

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1861-1973

JULY

AREA 0037 EUREKA
40.7N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.1	.3	.3	.0	9	.2	.6
11/13	.0	.0	.0	.2	.7	.6	.2	22	.2	1.6
9/10	.0	.0	.3	.6	.9	.4	.2	29	.5	1.8
7/8	.0	.0	.5	3.7	1.0	.5	.1	72	.4	5.4
6	.0	.1	2.2	2.9	.6	.2	.0	75	.7	5.3
5	.0	.1	7.4	3.1	1.0	.2	.2	130	2.0	10.0
4	.0	.3	6.9	2.5	1.4	.4	.1	145	2.6	9.0
3	.0	.6	7.2	3.0	1.1	.4	.0	194	2.6	9.8
2	.0	1.5	5.4	3.5	1.3	.3	.0	151	2.4	9.7
1	.0	1.0	3.8	3.5	1.7	.1	.0	127	2.1	8.1
0	.0	1.0	2.7	3.1	1.8	.0	.0	108	1.4	7.3
-1	.1	1.0	1.8	2.2	.6	.1	.0	71	1.4	4.2
-2	.1	.7	1.6	1.7	.3	.0	.0	55	.9	3.5
-3	.1	.3	.8	1.7	.2	.0	.0	39	.4	2.7
-4	.0	.2	.4	.5	.2	.0	.0	16	.0	1.3
-5	.0	.2	.4	.4	.0	.0	.0	12	.3	.6
-6	.0	.2	.2	.1	.1	.0	.0	7	.2	.3
-7/-8	.0	.0	.2	.0	.0	.0	.0	2	.0	.2
-9/-10	.0	.1	.1	.1	.0	.0	.0	3	.0	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	3	89	525	410	167	45	9	1248	228	1020
PCT	.2	7.1	42.1	32.9	13.4	3.6	.7	100.0	18.3	81.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.1	.1	.0	.0	.0	1.5	.0	.1	.0	.0	.0	.0	.1
1-2	.3	4.5	12.7	.0	.0	.0	17.5	.0	.4	1.1	.0	.0	.0	1.6
3-4	.0	1.7	8.7	8.1	.0	.0	18.5	.0	.2	.2	.3	.0	.0	.7
5-6	.0	.5	6.2	5.2	.3	.0	12.2	.0	.0	.3	.1	.0	.0	.4
7	.0	.0	2.6	3.1	.1	.0	5.8	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.7	3.4	.5	.0	4.6	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.1	1.6	.1	.0	1.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.3	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.1	.4	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.8	31.7	22.4	1.3	.0	63.8	.0	.8	1.7	.5	.0	.0	3.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	.7
1-2	.0	.1	.1	.0	.0	.0	.3	.0	.4	.5	.0	.0	.0	.9
3-4	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.1	.1	.0	.0	.3	.3	.7	.8	.0	.0	.0	1.8

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0037 EUREKA
40.7N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL	
															PCT	PCT
<1	.3	.7	.0	.0	.0	.0	1.0	.3	.6	.0	.0	.0	.0	.6	1.3	1.3
1-2	.1	.7	1.2	.0	.0	.0	2.1	.0	.1	.3	.0	.0	.0	.4	4.1	4.1
3-4	.0	.3	.2	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3	6.1	6.1
5-6	.0	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	3.4	3.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.9	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	1.8	.1	.0	.0	4.0	.3	.7	.8	.0	.0	.0	1.6	19.8	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
								DBS
<1	3.6	3.9	.3	.0	.0	.0	9.8	
1-2	.4	9.0	18.1	.0	.0	.0	27.5	
3-4	.0	4.3	13.5	.0	.0	.0	26.9	
5-6	.0	1.6	8.4	6.2	.3	.0	16.5	
7	.0	.0	3.5	4.5	.1	.0	8.1	
8-9	.0	.1	1.2	4.1	.6	.0	5.9	
10-11	.0	.0	.6	2.3	.1	.0	3.0	
12	.0	.0	.1	.1	.0	.0	.3	
13-16	.0	.0	.1	.6	.3	.0	1.0	
17-19	.0	.0	.1	.4	.0	.0	.6	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	19.1	45.9	27.5	1.4	.0	100.0	691

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
																					HGT
4-6	1.0	4.9	7.8	4.8	3.2	1.8	1.3	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	3
6-7	.0	2.1	6.6	14.9	8.3	3.8	2.0	.9	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	464	5
8-9	.0	1.7	3.8	4.0	3.4	2.7	3.2	.3	2.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	231	7
10-11	.0	.6	.9	1.0	.9	.1	.3	.7	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	7
12-13	.0	.0	.2	.3	.1	.2	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
>13	.0	.0	.0	.3	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
INDET	1.4	.6	.3	.8	.3	.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	4
TOTAL	27	115	226	300	191	107	93	29	53	14	1	1	0	0	0	0	0	0	0	1157	6
PCT	2.3	9.9	19.5	25.9	16.5	9.2	8.0	2.5	4.6	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1887-1973

AUGUST

AREA 0037 EUREKA
40.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.1	2.0	.0	.0	.0	.0	2.1	.3	.1	14.1	.1	18.3	.2	64.6
NE	.0	.0	2.7	.0	.0	.0	.0	2.7	.0	.0	19.6	1.8	18.3	.0	57.5
E	21.1	.0	4.2	.0	.0	.0	.0	21.1	.0	.0	5.6	.0	4.2	.0	69.0
SE	.7	.7	11.1	.0	.0	.0	.0	11.9	.7	.7	24.4	.0	12.6	.0	49.6
S	1.4	2.4	4.8	.0	.0	.0	.0	8.6	8.6	1.0	13.4	1.4	11.0	.0	56.2
SW	2.2	.0	.0	.0	.0	.0	.0	2.2	3.4	.0	9.0	.0	4.5	.0	80.9
W	.0	1.2	2.4	.0	.0	.0	.0	3.7	.0	.0	8.8	.0	4.9	.0	82.6
NW	1.6	.0	1.8	.0	.0	.0	.0	2.7	.5	.0	13.8	.0	3.2	.1	77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	3.1	.0	.0	.0	.0	4.6	.0	.0	30.8	1.5	13.8	.0	49.2
TOT PCT	.8	.3	2.4	.0	.0	.0	.0	3.3	.8	.1	14.6	.3	13.4	.1	67.3
TOT DBS:	1429														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHMR	DRYL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.5	.0	.8	.0	.0	.0	.0	1.1	.5	.0	11.7	.3	15.7	.0	70.7
06009	.9	.0	1.8	.0	.0	.0	.0	2.7	.9	.3	13.9	.0	11.6	.3	70.3
12015	1.6	.8	4.9	.0	.0	.0	.0	7.0	1.1	.3	16.2	.3	12.1	.3	62.8
18021	.3	.3	2.3	.0	.0	.0	.0	2.6	.8	.0	16.9	.5	14.4	.0	64.9
TOT PCT	.8	.3	2.5	.0	.0	.0	.0	3.3	.8	.1	14.7	.3	13.5	.1	67.1
TOT DBS:	1467														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					40+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.8	8.1	27.3	14.3	1.1	.0		51.6	17.7	53.1	39.7	54.3	59.3	51.2	48.1	53.8	48.2	
NE	.2	1.4	1.7	.6	*	.0		3.9	13.5	1.6	6.2	3.5	6.5	4.6	4.1	4.4	3.8	
E	.4	.4	.3	.0	.0	.0		1.1	7.3	.6	.0	1.5	1.2	1.0	3.1	1.1	1.1	
SE	.6	1.1	.7	*	*	.0		2.3	8.2	1.5	.2	3.9	1.9	2.5	2.5	2.4	2.3	
S	1.0	2.4	1.0	.3	*	.0		4.8	8.9	5.2	4.4	3.6	1.2	4.3	6.8	5.8	5.6	
SW	.8	2.0	.2	.0	.0	.0		3.0	6.0	2.4	6.7	3.2	1.9	1.9	2.7	3.1	4.7	
W	2.1	2.4	.8	*	.0	.0		5.4	6.1	2.8	14.9	2.4	3.1	2.6	13.2	4.1	11.5	
NW	1.5	7.6	10.0	3.9	.3	.0		23.3	14.1	27.0	23.4	24.3	21.3	25.8	17.2	21.7	17.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5							4.5	.0	5.9	4.6	3.3	3.7	6.1	2.3	3.5	5.0	
TOT DBS	191	406	669	303	24	0	1595		14.2	307	109	269	81	278	129	283	199	
TOT PCT	12.0	25.5	41.9	19.1	1.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	48+				00	03	06	09	12
N	4.1	18.4	24.3	4.9	.0	.0	51.6	17.7	49.6	55.4	50.2	52.0		
NE	.9	1.6	1.4	.1	.0	.0	3.9	13.5	2.8	4.2	4.4	4.2		
E	.6	.4	.2	.0	.0	.0	1.1	7.3	.4	1.4	1.7	1.1		
SE	1.2	.9	.3	.0	.0	.0	2.3	8.2	1.2	3.4	2.5	2.4		
S	2.1	2.0	.6	.0	.0	.0	4.8	8.9	5.0	3.1	5.1	5.7		
SW	1.9	1.0	.1	.0	.0	.0	3.0	6.0	3.5	2.9	2.1	3.6		
W	3.4	1.7	.2	.0	.0	.0	5.4	6.1	5.9	2.6	6.0	6.5		
NW	4.9	10.1	6.8	1.3	.0	.0	23.3	14.1	26.0	23.6	23.1	20.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.5	.0	.0	.0	.0	.0	4.5	.0	5.5	3.4	4.9	4.0		
TOT DBS	377	576	538	104	0	0	1595	14.2	4.6	350	467	422		
TOT PCT	23.6	36.1	33.7	6.3	.0	.0	100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.5	9.4	23.1	39.7	21.2	1.2	.0	14.2	100.0	416
0600	3.4	5.4	23.7	44.9	20.0	2.6	.0	15.1	100.0	330
1200	4.9	8.6	26.8	39.1	18.9	1.7	.0	13.8	100.0	407
1800	4.0	6.2	28.0	44.5	16.6	.7	.0	13.8	100.0	422
TOT	72	119	408	669	305	24	0	14.2		1595
PCT	4.5	7.5	25.3	41.9	19.1	1.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	24.3	2.8	6.2	23.4		4.3
NE	1.4	.1	.3	2.4		5.4
E	.2	.2	.1	1.3		5.3
SE	.4	.0	.4	1.4		6.3
S	1.0	.1	1.2	2.1		5.8
SW	.6	.2	.7	.4		4.3
W	.7	.3	1.0	.6		4.6
NW	10.2	1.6	3.3	7.3		3.9
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.6	2.6		5.7
TOT OBS	420	56	146	430	1054	4.5
TOT PCT	39.8	5.5	13.9	40.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	7.9	.2	2.2	4.3	10.2	2.8	.3	.1	.0	.4	28.4	
NE	.6	.1	.1	.4	.9	.4	.0	.0	.0	.1	1.6	
E	.2	.0	.0	.3	.1	.1	.0	.0	.0	.0	.4	
SE	.8	.0	.0	.3	.4	.4	.0	.0	.0	.0	.5	
S	.8	.0	.1	.8	.6	.6	.2	.1	.0	.0	1.2	
SW	.1	.0	*	.1	.5	.2	*	.0	.0	.0	1.1	
W	.1	.0	.1	.1	.9	.1	.1	.0	.0	.0	1.2	
NW	2.0	.2	.6	2.0	3.0	1.1	.4	.0	.0	*	12.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.3	.2	.5	.9	.3	.1	.0	.0	.0	1.3	
TOT OBS	142	8	34	92	183	63	11	2	0	6	513	
TOT PCT	13.5	.8	3.2	8.7	17.4	6.0	1.0	.2	.0	.6	48.7	1054

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.4	.6	.6	.6	.6	.6	.6	.6
>5000	.6	.7	.7	.7	.7	.7	.7	.7
>3500	1.3	1.6	1.9	1.9	1.9	1.9	1.9	1.9
>2000	6.2	7.6	8.0	8.0	8.0	8.0	8.0	8.0
>1000	16.8	23.6	25.3	25.7	25.8	25.8	25.8	25.8
>600	20.9	31.1	33.5	34.0	34.3	34.4	34.5	34.5
>300	22.0	33.9	36.3	36.9	37.3	37.4	37.6	37.6
>150	22.1	34.5	37.0	37.5	37.9	38.2	38.4	38.4
>0	22.2	36.7	40.6	42.6	45.0	47.0	51.8	51.9
TOTAL	239	396	438	460	486	507	559	580

TOTAL NUMBER OF OBS: 1079

PCT FREQ NM <5/8: 48.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
									OBS	OBS
	27.2	7.0	7.6	3.8	1.8	2.9	3.9	6.1	26.9	1116

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	NO PCP	9.3	.3	.0	.2	.5	.1	.4	1.1	.0	.6	6.5	
	TOT %	9.9	.3	.0	.2	.5	.1	.4	1.1	.0	.6	6.8	
1/2<1	PCP	.2	.0	.0	.0	.0	.0	.1	.1	.0	.0	.4	
	NO PCP	.8	.1	.1	.1	.0	.0	.1	.8	.0	.4	2.3	
	TOT %	1.0	.1	.1	.1	.0	.0	.2	1.0	.0	.4	2.7	
1<2	PCP	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	
	NO PCP	1.9	.1	.0	.1	.2	.1	.0	.3	.0	.1	2.2	
	TOT %	1.9	.1	.0	.1	.2	.1	.1	.4	.0	.1	2.5	
2<5	PCP	.1	.0	.2	.1	.0	.1	.0	.0	.0	.1	.6	
	NO PCP	2.8	.2	.1	.2	.3	.2	.1	.7	.0	.3	4.8	
	TOT %	2.9	.2	.3	.2	.3	.3	.1	.7	.0	.4	5.4	
5<10	PCP	.4	.0	.1	.2	.3	.0	.0	.3	.0	.0	1.3	
	NO PCP	12.3	1.2	.1	.4	.8	.7	.6	4.5	.0	.8	21.3	
	TOT %	12.7	1.2	.1	.6	1.1	.7	.6	4.8	.0	.8	22.6	
10+	PCP	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.4	
	NO PCP	30.6	1.9	.8	1.0	2.9	1.9	4.3	13.8	.0	2.2	59.5	
	TOT %	30.7	2.0	.8	1.0	3.0	1.9	4.4	13.8	.0	2.2	59.9	
TOT OBS													1424
TOT PCT													52.1 3.8 1.2 2.4 5.1 3.1 5.8 21.8 .0 4.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.0	.1	.0	.1	.3	.2	.0	.6	1.5	
	4-10	1.0	.2	.0	.1	.4	.0	.2	.3	.0	.0	2.2	
	11-21	1.8	.0	.0	.1	.0	.0	.0	.4	.0	.0	2.3	
	22+	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	TOT %	3.4	.3	.0	.3	.5	.1	.4	1.0	.0	.6	6.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	.5	
	4-10	.1	.0	.1	.1	.1	.0	.1	.5	.0	.0	1.1	
	11-21	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.9	
	22+	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT %	1.0	.0	.1	.1	.1	.0	.2	.9	.0	.3	2.7	
1<2	0-3	.0	.0	.0	.0	.1	.1	.0	.1	.0	.1	.4	
	4-10	.2	.1	.0	.1	.1	.1	.1	.1	.0	.0	.8	
	11-21	1.0	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.3	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	TOT %	1.5	.1	.0	.1	.2	.1	.1	.5	.0	.1	2.9	
2<5	0-3	.0	.0	.2	.1	.0	.1	.1	.1	.0	.4	.9	
	4-10	.7	.1	.0	.1	.1	.3	.1	.2	.0	.0	1.5	
	11-21	1.4	.1	.1	.1	.2	.0	.0	.2	.0	.0	2.0	
	22+	1.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.4	
	TOT %	3.1	.2	.3	.2	.3	.3	.1	.7	.0	.4	5.7	
5<10	0-3	.1	.1	.0	.2	.2	.1	.1	.3	.0	.9	1.9	
	4-10	1.5	.2	.0	.3	.4	.3	.3	1.7	.0	.0	4.9	
	11-21	8.6	.6	.1	.1	.3	.1	.1	2.6	.0	.0	10.3	
	22+	4.9	.4	.0	.0	.1	.0	.0	1.0	.0	.0	6.4	
	TOT %	13.0	1.2	.1	.6	1.0	.6	.6	5.6	.0	.9	23.7	
10+	0-3	.3	.0	.2	.2	.8	.6	1.7	.7	.0	2.2	6.7	
	4-10	4.8	.8	.4	.3	1.4	1.1	1.7	4.7	.0	.0	15.2	
	11-21	16.1	1.0	.1	.3	.8	.2	.6	6.1	.0	.0	25.0	
	22+	8.6	.2	.0	.0	.2	.0	.0	2.4	.0	.0	11.4	
	TOT %	29.8	2.0	.7	1.0	2.9	1.9	4.1	13.8	.0	2.2	58.3	
TOT OBS													1515
TOT PCT													51.7 3.9 1.2 2.4 5.0 3.1 5.5 22.7 .0 4.6 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	8.4	1.0	5.2	8.4	15.7	5.6	1.0	.0	.0	.3	45.8	54.2	286
06009	17.5	.4	1.2	5.8	12.5	5.4	1.6	.0	.0	1.2	45.5	54.5	257
12015	16.3	.8	1.9	10.5	19.1	7.4	.0	.0	.0	.0	56.0	44.0	257
18021	12.4	1.0	3.8	9.6	22.7	6.2	1.7	.7	.0	.7	58.8	41.2	291
TOT	147	9	34	94	192	67	12	2	0	6	563	528	1091
PCT	13.5	.8	3.1	8.6	17.6	6.1	1.1	.2	.0	.5	51.6	48.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.4	1.7	2.5	5.4	26.4	58.6	406
06009	6.3	1.4	3.2	4.0	26.4	58.7	349
12015	7.1	4.1	3.0	6.8	21.5	57.5	395
18021	7.9	3.7	2.7	6.7	20.8	58.2	404
TOT	104	43	44	90	368	905	1554
PCT	6.7	2.8	2.8	5.8	23.7	58.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	8.5	15.5	26.1	20.8	53.2	284
06009	17.6	19.6	27.5	19.2	53.3	255
12015	16.7	20.2	34.5	24.2	41.3	252
18021	12.5	18.4	31.6	29.9	38.5	288
TOT	147	198	322	255	502	1079
PCT	13.6	18.4	29.8	23.6	46.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.2	.2	.1	.0	.0	5	.4
70/74	.0	.0	.0	.0	.3	.2	.4	.2	14	1.1
65/69	.0	.0	.0	.0	.6	1.9	2.8	1.7	87	7.1
60/64	.0	.0	.0	.2	.6	6.6	17.5	11.6	449	36.4
55/59	.0	.0	.0	.1	.1	2.1	20.3	20.0	524	42.5
50/54	.0	.0	.0	.0	.0	.1	3.6	8.7	192	12.3
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	0	6	22	134	549	921	1232	100.0
PCT	.0	.0	.0	.5	1.8	10.9	44.6	42.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0
70/74	.2	.1	.1	.1	.2	.0	.1	.2	.0	.2
65/69	2.6	.2	.1	.1	.4	.6	.9	1.9	.0	.4
60/64	15.6	1.1	.7	.8	2.5	1.7	4.1	8.8	.0	1.2
55/59	25.7	1.9	.3	1.0	1.7	.4	.8	8.5	.0	2.3
50/54	7.7	.6	.0	.5	.5	.1	.2	2.4	.0	.4
45/49	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	51.9	4.0	1.2	2.5	5.2	2.8	6.0	22.1	.0	4.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	76	68	61	54	51	51	60.6	424
06009	74	67	64	57	53	52	50	58.0	357
12015	70	65	63	57	52	50	48	57.4	415
18021	82	71	68	60	53	50	49	59.8	428
TOT	82	72	66	58	53	51	48	59.0	1624

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
								OBS
00003	.0	.6	2.5	14.4	50.5	32.0	86	319
06009	.0	.3	1.0	7.7	42.5	48.4	89	287
12015	.0	.0	1.8	5.8	35.6	56.8	90	329
18021	.0	.9	1.5	15.1	49.5	32.9	87	331
TOT	0	6	22	137	564	537	88	1266

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
14/16	.0	.0	.0	.0	.1	.2	.2	.3	.2	12	.1	.9
11/13	.0	.0	.0	.1	.6	.6	.2	.1	.1	20	.2	1.3
8/10	.0	.0	.0	.6	1.3	.6	.2	.0	.0	34	.2	2.5
7/8	.0	.0	.6	2.5	2.4	.4	.2	.0	.0	78	1.1	5.1
6	.0	.0	1.0	2.9	1.0	.5	.2	.0	.0	72	.5	5.2
5	.0	.0	6.2	3.1	1.7	.9	.0	.0	.0	150	1.4	10.4
4	.0	.2	6.2	2.0	1.7	.7	.1	.0	.0	137	1.8	9.0
3	.0	.2	5.3	2.5	2.2	.9	.0	.0	.0	141	1.6	9.6
2	.0	.4	3.4	2.9	2.9	.9	.0	.0	.0	133	1.4	9.1
1	.0	.4	1.8	2.4	4.0	.2	.1	.0	.0	112	1.0	7.8
0	.1	.6	2.5	3.2	4.2	.2	.1	.0	.0	139	1.7	9.2
-1	.0	.4	1.6	2.1	2.5	.1	.0	.0	.0	83	1.4	5.1
-2	.0	.3	.2	2.7	1.3	.1	.0	.0	.0	57	.6	3.9
-3	.0	.2	.4	1.3	.9	.0	.0	.0	.0	34	.8	1.9
-4	.0	.2	.7	.9	.6	.0	.0	.0	.0	30	.3	2.1
-5	.0	.0	.4	.6	.2	.0	.0	.0	.0	15	.2	1.0
-6	.0	.0	.3	.2	.0	.0	.0	.0	.0	6	.1	.4
-7/-8	.0	.1	.2	.2	.0	.0	.0	.0	.0	5	.2	.2
-9/-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	2	38	391	383	348	77	15	8	3	1265	186	1079
PCT	.2	3.0	30.9	30.3	27.5	6.1	1.2	.6	.2	100.0	14.7	85.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.9	.8	.0	.0	.0	2.9	<1	.1	.4	.0	.0	.0	.0	.6
1-2	.3	3.2	15.4	.0	.0	.0	18.9	1-2	.0	.4	1.2	.0	.0	.0	1.6
3-4	.0	1.9	9.5	.0	.0	.0	20.2	3-4	.0	.0	.9	.0	.0	.0	1.5
5-6	.0	.1	5.7	1.6	.1	.0	7.7	5-6	.0	.1	.3	.1	.0	.0	.5
7	.0	.2	1.5	3.3	.1	.0	5.2	7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.1	.9	.8	.4	.0	2.2	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.9	.0	.0	1.1	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.7	.0	.0	1.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.4	.0	.8	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.6	34.5	16.5	1.1	.0	60.1	TOT PCT	.1	1.0	2.5	.7	.0	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.1	.0	.0	.0	.3	<1	.3	.5	.0	.0	.0	.0	.9
1-2	.0	.4	.0	.0	.0	.0	.4	1-2	.0	.3	.1	.0	.0	.0	.5
3-4	.0	.0	.4	.0	.0	.0	.4	3-4	.0	.1	.1	.1	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.5	.0	.0	.0	1.0	TOT PCT	.3	1.0	.4	.1	.0	.0	1.8

PERIOD: (OVER-ALL) 1963-1973

AUGUST
TABLE 18 (CONT)

AREA 0037 EUREKA
40.7N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.4	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.5	.6	.0	.0	.0	1.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.5	.1	.2	.0	.0	.9	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	1.0	.5	.0	.0	3.9	.0	1.7	.1	.0	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	.2	.9	.0	.0	.0	.0	1.1	
1-2	.0	1.0	.4	.0	.0	.0	1.4	.3	2.1	2.4	.0	.0	.0	4.7	
3-4	.1	.5	.1	.0	.0	.0	.7	.0	2.6	3.9	.3	.0	.0	6.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.9	.7	.0	.0	3.1	
7	.0	.1	.0	.0	.0	.0	.1	.1	.0	1.0	.8	.0	.0	2.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.0	.0	1.5	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.1	.1	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.0	.5	.1	.0	.0	2.9	.6	6.1	9.9	3.3	.2	.0	20.0	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	6.3	1.0	.0	.0	.0	12.3	
1-2	.6	8.5	20.1	.0	.0	.0	29.2	
3-4	.1	6.0	15.0	10.0	.0	.0	31.1	
5-6	.0	.7	8.5	2.6	.1	.0	12.0	
7	.1	.4	2.6	4.1	.1	.0	7.4	
8-9	.0	.1	1.3	2.0	.4	.0	3.8	
10-11	.0	.0	.4	1.1	.1	.0	1.7	
12	.0	.0	.4	.7	.0	.0	1.1	
13-16	.0	.0	.0	.7	.4	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	22.1	49.3	21.2	1.3	.0	100.0	702

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	8.6	13.9	6.2	4.9	1.2	1.1	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	424	4
6-7	.0	2.7	12.2	11.7	5.1	2.9	1.6	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	424	5
8-9	.0	1.7	3.9	3.3	2.4	1.1	1.1	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	6
10-11	.0	.1	.6	.8	.9	.7	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	7
12-13	.0	.0	.3	.0	.1	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.0	.2	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	1.4	.2	.8	.3	.1	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	3
TOTAL	28	147	351	248	152	69	51	37	26	0	0	0	0	0	0	0	0	0	0	1109	5
PCT	2.5	13.3	31.7	22.4	13.7	6.2	4.6	3.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1860-1973

AREA 0037 EUREKA
40.7N 124.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.0	.6	.0	.0	.0	.0	.7	.2	.3	14.3	.8	19.8	.0	64.0
NE	1.9	.0	1.9	.0	.0	.0	.0	3.9	.0	.0	14.5	.0	6.3	.0	75.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36.7	.0	20.3	.0	43.0
SE	1.6	.0	2.9	.0	.0	.0	.0	4.6	2.6	.0	25.2	2.6	6.9	.0	58.2
S	4.6	.0	9.1	.0	.0	.0	.0	8.9	.0	.0	23.4	.0	6.6	.0	61.1
SW	5.2	1.9	.8	.0	.0	.0	.0	7.1	4.3	.0	11.0	1.0	1.9	.0	74.8
W	1.5	.0	1.5	.0	.0	.0	.0	1.5	1.1	.0	17.2	2.2	10.4	.0	67.3
NW	1.2	.0	1.9	.0	.0	.0	.0	3.1	.4	.2	10.4	1.4	14.6	.0	69.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	21.5	1.5	30.8	.0	44.6
TOT PCT	1.2	.1	1.4	.0	.0	.0	.0	2.5	.6	.2	15.6	1.0	15.8	.0	64.3
TOT OBS:	1291														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.3	.0	.3	.0	.0	.0	.0	.6	.3	.3	14.1	.6	18.7	.0	65.4
0600	1.4	.3	2.4	.0	.0	.0	.0	3.4	.7	.0	14.3	.0	12.6	.0	69.0
1200	2.5	.0	1.9	.0	.0	.0	.0	4.1	.3	.3	17.3	.9	12.9	.0	64.2
1800	.6	.0	1.2	.0	.0	.0	.0	1.8	.9	.0	16.9	2.4	17.8	.0	60.2
TOT PCT	1.2	.1	1.4	.0	.0	.0	.0	2.4	.6	.2	15.7	1.0	15.6	.0	64.6
TOT OBS:	1271														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.7	6.3	25.2	10.8	2.1	.0		46.2	17.8		43.4	48.3	47.5	61.6	47.4	41.1	48.0	36.6
NE	.4	1.6	1.5	.5	.0	.0		3.9	12.8		1.8	.7	4.6	1.5	6.7	8.1	4.3	4.2
E	.3	1.0	.1	.0	.0	.0		1.5	5.7		1.6	.0	1.0	1.2	2.6	.9	2.0	1.4
SE	.8	2.8	2.0	.1	.0	.0		5.7	8.9		7.7	4.0	6.7	3.6	4.4	5.7	6.5	4.2
S	1.4	3.1	2.0	.3	.0	.0		6.8	9.7		8.3	4.8	5.9	1.2	5.9	7.6	9.6	7.4
SW	1.3	2.3	.2	.2	.0	.0		4.0	6.7		5.4	6.6	2.7	1.2	3.0	4.6	4.1	4.0
W	1.8	2.3	1.0	.0	.0	.0		5.2	6.7		3.1	7.5	5.0	.6	2.8	10.9	2.7	13.2
NW	1.4	6.4	9.3	3.2	.5	.0		20.8	14.3		23.4	22.1	22.4	20.8	20.9	14.6	17.3	22.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0		9.4	5.9	4.2	8.3	6.4	8.7	5.6	6.3
TOT DBS	219	377	603	221	39	0	1459		13.5		237	136	240	84	251	115	234	142
TOT PCT	15.0	25.8	41.3	15.1	2.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	3.6	17.1	20.8	4.2	.4			46.2	17.8		45.1	51.2	45.4	43.7				
NE	1.1	1.5	1.2	.1	.0			3.9	12.8		1.4	3.8	6.5	4.3				
E	1.1	.4	.0	.0	.0			1.5	5.7		1.0	1.1	2.0	1.8				
SE	2.3	2.8	.6	.0	.0			5.7	8.9		6.4	5.9	4.8	5.7				
S	2.9	2.6	1.2	.1	.0			6.8	9.7		7.1	4.7	6.4	8.8				
SW	2.3	1.4	.2	.1	.0			4.0	6.7		5.8	2.3	3.3	4.1				
W	3.2	1.6	.4	.0	.0			3.2	6.7		4.6	3.9	5.3	6.6				
NW	4.2	8.9	6.5	1.1	.1			20.8	14.3		23.0	22.0	18.9	19.3				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	6.0							6.0	.0		5.6	5.2	7.1	5.9				
TOT DBS	389	531	450	82	7	1499			13.5		393	324	366	376				
TOT PCT	26.7	36.4	30.8	5.6	.5			100.0			100.0	100.0	100.0	100.0				

SEPTEMBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1860-1973

AREA 0037 EUREKA
40.7N 124.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.6	9.4	25.7	39.4	16.3	3.6	.0	13.7	100.0	393
06009	5.2	6.2	26.9	40.7	18.5	2.5	.0	14.5	100.0	324
12013	7.1	10.4	23.5	44.8	11.7	2.5	.0	13.1	100.0	366
18021	5.9	9.8	27.4	40.4	14.4	2.1	.0	13.0	100.0	376
TOT	87	132	377	803	221	39	0	13.5		1459
PCT	6.0	9.0	25.8	41.3	15.1	2.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & C OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	31.2	3.5	4.5	11.3		2.8
NE	2.0	.2	.5	1.2		3.4
E	.4	.0	.2	1.1		6.3
SE	.9	.3	1.3	3.3		6.2
S	1.1	.4	1.5	3.7		6.1
SW	.7	.4	1.1	1.2		5.4
W	.6	.4	1.0	1.7		5.7
NW	10.0	2.6	1.9	4.2		3.0
VAR	.0	.0	.0	.0		3.3
CALM	2.9	.1	.8	1.8		3.6
TOT OBS	414	66	106	249	831	
TOT PCT	49.8	7.9	12.8	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

THE DISTRIBUTION OF WIND SPEEDS BY WIND DIRECTION												
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <3/8 ANY HGT	TOTAL OBS
N	6.6	.2	.2	2.4	3.7	1.3	.2	.1	.0	.1	35.6	
NE	.4	.0	.0	.2	.3	.2	.0	.2	.1	.0	2.9	
E	.5	.0	.1	.1	.0	.3	.0	.0	.0	.1	.5	
SE	1.1	.2	.0	.5	1.1	1.1	.2	.0	.0	.1	1.5	
S	1.1	.1	.1	.9	1.4	.7	.1	.1	.0	.0	2.1	
SW	.3	.1	.0	.6	.3	.3	.1	.3	.1	.0	1.2	
W	.6	.0	.4	.6	.4	.1	.4	.0	.0	.0	1.3	
NW	1.3	.8	.9	1.0	1.4	.8	.1	.0	.0	.0	13.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.4	.5	.4	.1	.0	.0	.0	3.5	
TOT OBS	105	6	16	35	77	42	11	5	2	2	512	831
TOT PCT	12.6	.7	1.7	6.6	9.3	5.1	1.3	.6	.2	.2	61.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6000	.4	.5	.5	.5	.5	.5	.5	.5
>OR >5000	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>OR >3500	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>OR >2000	6.1	7.5	7.5	7.6	7.6	7.6	7.6	7.6
>OR >1000	11.1	15.6	16.4	16.7	16.7	16.7	16.8	16.9
>OR >600	13.8	21.6	22.9	23.2	23.2	23.2	23.4	23.5
>OR >300	14.2	22.9	24.4	24.9	24.9	24.9	25.0	25.1
>OR >150	14.3	23.4	25.1	25.6	25.6	25.6	25.7	25.9
>OR >0	14.7	24.1	26.7	28.1	31.9	34.4	36.1	38.3
TOTAL	123	202	224	236	268	289	320	323

TOTAL NUMBER OF OBS: 839

PCT FREQ NM <3/8: 61.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	39.0	6.1	6.2	4.5	2.8	1.7	3.6	3.4	17.9	893

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1860-1973

SEPTEMBER

AREA 0037 EUREKA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	NO PCP	2.8	.0	.3	.3	.7	.3	.6	.8	.0	.6	6.4	
	TOT %	2.9	.1	.3	.3	.7	.3	.6	.8	.0	.6	6.6	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	1.8	.3	.1	.5	.4	.1	.1	.5	.0	.3	4.0	
	TOT %	1.8	.3	.1	.5	.5	.1	.1	.6	.0	.3	4.2	
1<2	PCP	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.6	
	NO PCP	.7	.1	.0	.4	.1	.0	.1	.3	.0	.2	1.9	
	TOT %	.8	.1	.0	.4	.3	.0	.1	.6	.0	.2	2.5	
2<5	PCP	.1	.0	.0	.0	.1	.2	.0	.1	.0	.0	.5	
	NO PCP	2.1	.4	.2	.7	.3	.0	.4	1.1	.0	.2	5.4	
	TOT %	2.2	.4	.2	.7	.4	.2	.4	1.2	.0	.2	5.8	
5<10	PCP	.1	.1	.0	.2	.2	.0	.1	.2	.0	.0	.8	
	NO PCP	8.7	1.0	.3	.8	1.6	1.3	1.4	4.4	.0	.6	20.3	
	TOT %	8.8	1.1	.3	1.0	2.0	1.3	1.5	4.6	.0	.6	21.1	
10+	PCP	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.2	
	NO PCP	30.2	2.2	.7	3.1	3.1	2.2	2.7	12.0	.0	3.3	59.5	
	TOT %	30.2	2.2	.7	3.2	3.1	2.3	2.7	12.1	.0	3.3	59.7	
TOT OBS													1249
TOT PCT													46.6 4.1 1.6 6.1 7.0 4.2 5.4 19.7 .0 5.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.1	.0	.0	.3	.1	.4	.2	.0	.7	2.4	
	4-10	.4	.0	.2	.0	.4	.1	.1	.3	.0	.0	1.6	
	11-21	1.6	.1	.0	.3	.1	.0	.1	.2	.0	.0	2.3	
	22+	.5	.0	.0	.0	.0	.0	.0	.1	.0	.0	.8	
	TOT %	2.9	.2	.3	.3	.7	.3	.7	.8	.0	.7	6.8	
1/2<1	0-3	.1	.0	.0	.1	.0	.1	.0	.0	.0	.3	.3	
	4-10	.3	.2	.1	.2	.2	.0	.1	.1	.0	.0	1.0	
	11-21	.9	.1	.0	.2	.2	.0	.0	.4	.0	.0	1.8	
	22+	.5	.0	.0	.0	.1	.0	.0	.1	.0	.0	.7	
	TOT %	1.8	.3	.1	.5	.4	.1	.1	.6	.0	.3	4.0	
1<2	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.1	.4	
	4-10	.1	.1	.0	.2	.0	.0	.1	.1	.0	.0	.7	
	11-21	.5	.0	.0	.1	.2	.0	.0	.2	.0	.0	.9	
	22+	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4	
	TOT %	.8	.1	.0	.4	.3	.0	.1	.6	.0	.1	2.4	
2<5	0-3	.1	.2	.1	.1	.1	.1	.0	.1	.0	.4	1.2	
	4-10	.6	.1	.1	.3	.0	.0	.3	.7	.0	.0	2.0	
	11-21	1.2	.1	.1	.3	.3	.0	.1	.5	.0	.0	2.5	
	22+	.4	.1	.0	.0	.0	.0	.0	.1	.0	.0	.8	
	TOT %	2.4	.4	.2	.6	.4	.2	.3	1.3	.0	.4	6.3	
5<10	0-3	.5	.0	.0	.2	.6	.3	.4	.4	.0	.8	3.1	
	4-10	1.3	.7	.2	.4	1.0	.7	.7	1.9	.0	.0	6.9	
	11-21	4.7	.2	.1	.3	.3	.0	.3	2.0	.0	.0	8.0	
	22+	3.2	.1	.0	.0	.1	.1	.0	.8	.0	.0	4.4	
	TOT %	9.7	1.0	.3	.9	2.0	1.2	1.4	5.1	.0	.8	22.4	
10+	0-3	.4	.1	.3	.3	.4	.7	.9	.2	.0	3.3	6.6	
	4-10	3.2	.6	.5	1.5	1.4	1.5	1.1	3.3	.0	.0	13.1	
	11-21	17.0	1.0	.0	.9	1.0	.1	.5	5.9	.0	.0	26.6	
	22+	9.0	.3	.0	.1	.1	.1	.0	2.2	.0	.0	11.9	
	TOT %	29.7	2.0	.8	2.9	2.9	2.4	2.5	11.6	.0	3.3	58.1	
TOT OBS													1374
TOT PCT													47.2 4.0 1.6 5.7 6.8 4.1 5.0 20.1 .0 5.6 100.0

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PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1860-1973

AREA 0037 EUREKA
40.7N 124.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.6	1.8	.9	5.0	9.0	6.3	1.4	.5	.0	.5	33.9	66.1	221
06009	15.5	.0	.5	8.0	4.5	3.5	1.0	.5	.0	.0	33.5	66.5	200
12015	14.9	.0	2.5	4.5	8.5	4.5	.5	.5	.5	.0	36.3	63.7	201
18021	11.2	.8	2.5	7.9	13.2	5.8	2.1	.8	.4	.4	45.0	55.0	242
TOT	107	6	14	55	78	44	11	5	2	2	324	540	864
PCT	12.4	.7	1.6	6.4	9.0	5.1	1.3	.6	.2	.2	37.5	62.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.8	3.7	2.9	5.6	27.3	55.6	374
06009	6.1	3.8	1.9	3.5	20.4	64.3	314
12015	9.8	5.2	2.0	5.5	20.1	57.5	368
18021	7.2	3.1	2.5	9.7	22.3	55.2	359
TOT	97	55	33	86	316	808	1395
PCT	7.0	3.9	2.4	6.2	22.7	57.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.9	12.7	20.7	17.4	62.0	213
06009	17.3	18.3	28.3	8.4	63.4	191
12015	15.1	19.1	26.1	13.6	60.3	199
18021	11.0	14.4	25.4	21.6	59.0	236
TOT	106	134	210	131	498	839
PCT	12.9	16.0	25.0	15.6	59.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.2	.1	.0	.0	4	.4
70/74	.0	.0	.0	.1	.2	.0	.2	.0	3	.4
65/69	.0	.0	.1	.2	.9	1.9	3.4	.5	78	7.0
60/64	.0	.0	.0	.4	1.8	6.8	15.5	7.8	362	32.3
55/59	.0	.0	.0	.6	5.0	15.6	19.5	50.2	44.7	44.7
50/54	.0	.0	.0	.3	.7	5.6	7.7	160	14.3	14.3
45/49	.0	.0	.0	.0	.0	.0	.0	11	1.0	1.0
TOTAL	0	0	1	8	44	182	497	410	1122	100.0
PCT	.0	.0	.1	.7	3.9	14.4	44.3	36.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.1	.1	.0	.0	.0
.2	.0	.1	.0	.0	.2	.0	.0	.0	.0
2.5	.3	.1	.2	.4	.6	1.1	1.2	.0	.4
12.8	1.2	.4	2.1	2.5	2.0	2.8	7.2	.0	1.2
21.9	1.8	.5	2.9	3.2	.7	1.6	9.5	.0	2.7
8.8	.5	.2	.6	.5	.3	.1	2.3	.0	1.0
.6	.0	.0	.1	.0	.0	.0	.3	.0	.0
46.8	3.9	1.3	5.9	6.7	3.9	5.7	20.5	.0	5.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	69	66	60	54	52	50	59.8	391
06009	68	65	64	57	52	48	47	57.4	323
12015	67	65	62	56	51	48	47	56.4	362
18021	79	71	68	59	53	50	50	59.6	377
TOT	79	69	65	58	52	49	47	58.4	1453

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.4	5.1	18.6	30.5	24.4	84	295
06009	.0	.0	3.9	8.9	38.4	48.8	89	258
12015	.0	.7	1.8	9.3	41.9	46.2	89	279
18021	.0	1.3	5.3	19.4	44.4	29.6	85	304
TOT	0	10	46	163	300	417	87	1136

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1860-1973

SEPTEMBER

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.1	.1
14/16	.0	.0	.0	.0	.1	.2	.1	.0	.0	4	.0	.4
11/13	.0	.0	.0	.2	1.5	.8	.2	.0	.0	29	.3	2.4
9/10	.0	.0	.1	1.0	2.1	.3	.1	.0	.0	39	.5	3.1
7/8	.0	.0	.1	4.3	1.4	.1	.0	.0	.0	64	1.0	4.8
6	.0	.0	1.5	2.4	1.0	.2	.4	.0	.0	59	1.3	4.1
5	.0	.1	4.3	3.3	1.5	1.1	.1	.0	.0	113	1.2	9.1
4	.0	.0	4.2	2.3	.9	.4	.0	.0	.0	85	.8	6.9
3	.0	.1	4.5	3.4	1.7	.5	.0	.0	.0	111	.9	9.2
2	.0	.8	3.7	3.5	1.6	.3	.0	.0	.0	108	1.4	8.5
1	.0	.9	2.0	2.9	2.7	.5	.0	.0	.0	99	1.1	8.0
0	.0	1.3	2.8	3.0	3.3	.6	.1	.0	.0	122	3.1	8.0
-1	.1	.7	1.6	3.5	2.4	.1	.0	.0	.0	92	1.6	6.8
-2	.0	.2	.5	2.6	1.4	.3	.0	.0	.0	53	.5	4.3
-3	.3	.2	1.1	1.3	.5	.1	.0	.0	.0	38	.7	2.7
-4	.0	.1	.7	1.2	.3	.0	.0	.0	.0	25	.1	2.2
-5	.0	.0	.6	.9	.5	.0	.0	.0	.0	22	.3	1.7
-6	.0	.2	.5	.2	.0	.0	.0	.0	.0	9	.4	.5
-7/-8	.1	.1	.5	.7	.0	.0	.0	.0	.0	16	.2	1.3
-9/-10	.0	.1	.1	.0	.1	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	316	401	249	39	11	0	1	1094	169	925	84.6
PCT	.5	4.8	28.9	36.7	22.8	5.4	1.0	.0	.1	100.0	15.4	84.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	1.7	.2	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.3	9.7	.0	.0	.0	12.5	.0	.4	.3	.0	.0	.0	.7
3-4	.0	1.6	12.4	4.3	.0	.0	18.3	.0	.7	.7	.0	.0	.0	1.4
5-6	.0	1.0	5.5	2.3	.0	.0	8.8	.0	.4	.8	.0	.0	.0	1.3
7	.0	.0	3.0	1.5	.0	.0	4.5	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	1.1	.7	.0	1.8	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.3	.4	.5	.0	1.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	6.6	31.1	9.3	1.8	.0	50.3	.0	1.6	2.6	.2	.0	.0	4.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.0	1.1	.0	.0	.0	.0	1.1
1-2	.2	.0	.0	.0	.0	.0	.2	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.5	.0	.0	.0	.0	.7	.0	3.1	1.8	.0	.0	.0	5.0

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0037 EUREKA
40.7N 124.8W

TABLE 18 (CONT.)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.5	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6
1-2	.2	1.4	.7	.0	.0	.0	2.2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.2	.5	.1	.0	.0	.0	.8	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.4	.4	.0	.0	.0	.8	.0	.2	.0	.2	.0	.0	.4
7	.0	.3	.3	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.9	1.5	.0	.0	.0	5.3	.2	1.9	.2	.2	.0	.0	2.5

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.8	.0	.0	.0	.0	1.0	.2	2.9	.0	.0	.0	.0	3.1	
1-2	.2	1.2	.2	.0	.0	.0	1.5	.1	2.8	2.0	.0	.0	.0	4.9	
3-4	.0	.1	.9	.0	.0	.0	1.1	.2	2.6	2.7	.9	.0	.0	6.4	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.5	1.9	.5	.0	.0	2.9	
7	.0	.2	.0	.0	.0	.0	.2	.0	.2	1.6	.5	.0	.0	2.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.3	1.3	.0	.0	.0	4.0	.5	8.9	8.5	2.9	.1	.0	21.0	93.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.3	7.8	.2	.0	.0	.0	17.3	
1-2	1.1	10.2	13.4	.0	.0	.0	24.7	
3-4	.4	6.5	17.7	5.2	.0	.0	29.7	
5-6	.2	2.4	9.1	3.0	.0	.0	14.7	
7	.0	.7	5.2	2.2	.0	.0	8.2	
8-9	.0	.0	.6	1.9	.7	.0	3.2	
10-11	.0	.0	.6	.4	.6	.0	1.5	
12	.0	.0	.0	.2	.4	.0	.6	
13-16	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.0	27.7	46.7	12.8	1.9	.0	100.0	538

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	5.6	11.7	6.6	2.4	1.8	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	4
6-7	.0	5.3	12.6	10.3	6.2	2.3	2.1	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	5
8-9	.0	1.4	3.7	3.2	3.6	1.7	.9	1.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	6
10-11	.0	.1	.6	.4	1.3	.7	.9	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	41	8
12-13	.0	.0	.2	.6	.2	.1	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
MODEY	3.1	.6	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	2
TOTAL	46	118	265	197	129	61	40	29	19	2	1	0	0	0	0	0	0	0	0	907	5
PCT	9.1	19.0	29.2	21.7	14.2	6.7	4.4	3.2	2.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

OCTOBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.4	.4	.0	.0	.0	.0	.9	.0	.5	10.4	.8	11.0	.0	76.5
NE	.3	.0	.0	.0	.0	.0	.0	.3	1.3	.0	14.8	.7	15.3	.0	67.3
E	4.6	.0	.0	.0	.0	.0	.0	4.6	.0	.0	6.5	3.9	20.9	.0	64.1
SE	15.6	.0	5.7	.0	.0	.0	1.2	19.6	.0	1.2	10.0	.0	6.9	.0	63.4
S	12.5	1.0	4.8	.0	.0	.0	.4	17.6	2.0	.7	8.9	.5	10.5	.5	59.9
SW	11.3	.0	6.3	.0	.0	.0	.0	17.7	7.0	1.7	5.7	.0	5.7	.0	62.7
W	3.1	.0	3.9	.0	.0	.0	.0	7.0	3.9	.0	11.2	.0	6.2	.0	71.7
NW	.5	1.0	.6	.0	.0	.0	.0	2.1	.6	.4	14.0	.6	11.5	.0	70.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	3.3	.0	.0	.0	.0	4.9	.0	.8	29.3	.8	8.9	.0	56.1
TOT PCT	4.2	.4	2.2	.0	.0	.0	.1	6.6	1.0	.6	12.3	.7	10.5	.1	68.6
TOT OBS:	1378														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	4.8	.5	2.9	.0	.0	.0	.3	7.7	1.3	.5	12.5	.3	9.5	.3	68.2
0600	4.1	.7	2.0	.0	.0	.0	.0	6.8	2.4	.3	10.5	1.0	8.8	.0	70.2
1200	4.3	.3	2.3	.0	.0	.0	.3	7.1	.0	1.4	11.1	.3	8.5	.0	72.4
1800	4.0	.3	1.3	.0	.0	.0	.0	5.1	.5	.0	15.2	1.3	14.2	.0	63.6
TOT PCT	4.3	.4	2.1	.0	.0	.0	.1	6.7	1.0	.6	12.5	.7	10.4	.1	68.4
TOT OBS:	1397														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	8.2	16.8	7.6	1.1	.0		34.6	16.7		38.0	32.0	39.4	37.2	36.2	27.6	33.9	25.7
NE	.7	2.5	1.0	.5	.1	.0		4.8	10.0		3.2	3.1	6.7	2.7	2.8	9.2	5.8	5.8
E	.9	1.6	.3	.0	.0	.0		2.9	5.9		.5	2.3	1.6	2.4	3.5	7.6	2.9	5.3
SE	.8	3.6	9.6	.8	.4	.0		8.2	12.6		7.9	7.2	4.8	13.1	7.4	11.8	8.3	10.2
S	.9	6.2	9.5	1.8	.4	.2		15.0	13.7		16.4	14.9	15.1	13.7	12.1	15.8	14.1	18.8
SW	.5	2.2	2.0	.2	.2	.0		5.1	11.7		5.5	5.0	4.8	3.0	4.4	6.4	5.2	5.6
W	.8	2.8	1.0	.1	.0	.0		4.7	8.3		4.3	11.6	4.4	3.7	4.7	1.6	4.5	4.1
NW	1.0	6.3	6.8	1.6	.2	.0		15.9	12.7		16.6	14.5	15.4	16.8	18.3	12.8	14.8	15.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.9							8.9	.0		7.5	9.3	7.9	7.3	10.6	7.2	10.5	8.9
TOT OBS	249	341	980	202	38	3	1613		12.5		320	129	240	82	282	125	266	169
TOT PCT	15.4	33.5	36.0	12.5	2.4	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				03	06	12	18	
N	3.7	14.0	13.5	3.2	.2		34.6	16.7	36.3	38.8	33.5	30.7		
NE	2.1	1.9	.7	.1	.0		4.8	10.0	3.2	5.7	4.8	5.8		
E	2.0	.8	.1	.0	.0		2.9	5.9	1.0	1.8	4.7	3.9		
SE	2.2	3.9	1.3	.7	.1		8.2	12.6	7.7	6.9	8.8	9.0		
S	3.6	7.3	2.7	1.0	.3		15.0	13.7	16.0	14.8	13.2	15.9		
SW	1.2	3.0	.6	.1	.1		5.1	11.7	5.4	4.3	5.0	5.3		
W	2.1	2.3	.3	.0	.0		4.7	8.3	6.4	4.2	3.7	4.4		
NW	3.7	7.4	4.3	.4	.0		15.9	12.7	16.0	15.8	16.6	15.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	8.9						8.9	.0	8.0	7.8	9.6	9.9		
TOT OBS	476	657	380	88	12	1613		12.5	449	322	407	435		
TOT PCT	29.5	40.7	23.6	5.5	.7		100.0		100.0	100.0	100.0	100.0		

OCTOBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973AREA 0037 EUREKA
40.7N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47						
0000	8.0	7.3	29.8	38.8	13.8	2.0	.2	13.0	100.0	449		
0600	7.8	3.4	39.1	32.3	13.0	4.3	.0	13.2	100.0	322		
1200	9.8	6.9	33.4	35.1	12.8	2.0	.2	12.2	100.0	407		
1800	9.9	7.8	33.3	36.6	10.6	1.6	.2	11.8	100.0	435		
TOT	143	106	341	580	202	38	3	12.5		1613		
PCT	8.9	6.6	33.5	36.0	12.5	2.4	.2	100.0				

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	22.6	3.9	4.3	8.0		2.9
NE	1.9	.4	1.0	1.0		3.7
E	.5	.2	.6	.8		5.3
SE	1.3	.6	1.3	3.5		5.8
S	1.9	1.3	3.1	7.8		6.2
SW	.4	.8	1.7	2.3		6.2
W	1.4	.5	1.2	1.0		4.5
NW	8.0	1.8	1.9	3.3		3.2
VAR	.0	.0	.0	.0		.0
CALM	3.3	1.0	.7	4.6		4.7
TOT OBS	367	94	140	288	889	4.1
TOT PCT	41.3	10.6	15.7	32.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.8	.3	.3	1.1	3.7	.8	.4	.0	.0	.0	29.3	
NE	.0	.0	.1	.4	.4	.3	.0	.1	.0	.0	3.0	
E	.1	.1	.2	.1	.6	.0	.1	.0	.0	.0	1.0	
SE	.7	.3	.3	.7	1.6	.6	.2	.0	.0	.0	2.4	
S	.8	.3	.6	2.0	3.7	1.8	.4	.1	.1	.3	4.0	
SW	.0	.1	.5	.5	1.3	.9	.1	.0	.1	.0	1.7	
W	.3	.1	.1	.4	.4	.4	.0	.0	.1	.0	2.4	
NW	1.3	.0	.1	.7	1.4	.3	.2	.0	.0	.0	10.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9	.0	.3	.0	1.2	.4	.0	.0	.0	.0	4.6	
TOT OBS	79	11	23	52	127	49	13	2	2	3	528	889
TOT PCT	8.9	1.2	2.6	5.8	14.3	5.5	1.5	.2	.2	.3	59.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.4	.4	.6	.6	.6	.6	.6	.6
>OR >5000	.6	.7	.8	.8	.8	.8	.8	.8
>OR >3500	1.3	1.8	1.9	2.0	2.1	2.2	2.2	2.2
>OR >2000	5.1	6.8	7.2	7.5	7.6	7.7	7.7	7.7
>OR >1000	13.2	19.6	20.7	21.6	21.7	21.9	21.9	21.9
>OR >600	16.2	24.4	26.3	27.3	27.4	27.7	27.9	27.9
>OR >300	17.0	26.7	28.7	29.9	30.1	30.4	30.5	30.5
>OR >150	17.4	27.4	29.8	31.0	31.3	31.7	31.8	31.8
>OR >0	17.8	27.9	31.2	32.8	33.0	33.8	33.8	40.7
TOTAL	159	249	279	293	313	329	356	364

TOTAL NUMBER OF OBS: 894

PCT FREQ NM <5/8: 59.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	33.0	7.0	8.8	5.6	4.0	1.9	3.6	5.8	22.2	932

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

OCTOBER

TABLE 8

AREA 0037 EUREKA
40.7N 124.9W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.4	
	NO PCP	1.5	.1	.3	.3	.8	.2	.5	1.2	.0	1.6	6.4	
	TOT %	1.5	.1	.3	.3	.9	.4	.5	1.2	.0	1.7	6.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.8	.3	.0	.1	.2	.1	.1	.3	.0	.7	2.6	
	TOT %	.8	.3	.0	.1	.2	.1	.1	.3	.0	.7	2.6	
1<2	PCP	.0	.0	.0	.0	.5	.2	.0	.0	.0	.1	1.4	
	NO PCP	.4	.1	.0	.0	.0	.0	.0	.3	.0	.0	.7	
	TOT %	.4	.1	.0	.0	.5	.2	.0	.3	.0	.1	2.1	
2<5	PCP	.1	.0	.0	.1	.7	.2	.1	.0	.0	.1	1.5	
	NO PCP	1.3	.5	.3	.2	.6	.3	.0	.4	.0	.2	3.8	
	TOT %	1.4	.5	.3	.4	1.3	.5	.1	.4	.0	.4	5.2	
5<10	PCP	.0	.0	.1	.6	1.3	.4	.0	.2	.0	.1	2.7	
	NO PCP	7.5	.8	.7	1.4	3.0	1.4	.9	2.9	.0	1.5	20.1	
	TOT %	7.5	.8	.9	2.0	4.2	1.8	1.0	3.1	.0	1.6	22.8	
10+	PCP	.7	.0	.0	.2	.1	.1	.1	.1	.0	.0	.7	
	NO PCP	24.3	3.6	1.3	4.1	7.6	2.5	2.8	9.1	.0	4.4	59.8	
	TOT %	24.5	3.6	1.3	4.3	7.7	2.6	2.9	9.1	.0	4.4	60.5	
TOT OBS													
TOT PCT		36.0	5.4	2.8	7.6	14.8	5.4	4.7	14.4	.0	8.9	100.0	1377

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.2	.1	.3	.2	.2	.0	.0	1.6	2.7	
	4-10	.9	.1	.0	.1	.3	.0	.2	.0	.0	.0	2.5	
	11-21	.5	.0	.0	.1	.1	.1	.0	.2	.0	.0	1.1	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.5	
	TOT %	1.5	.1	.3	.3	.9	.4	.5	1.3	.0	1.6	6.7	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.1	.1	.0	.7	.9	
	4-10	.2	.1	.0	.0	.1	.1	.1	.2	.0	.0	.9	
	11-21	.5	.0	.0	.1	.2	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	.2	.0	.1	.3	.1	.1	.4	.0	.7	2.5	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.1	.0	.0	.0	.2	.1	.0	.2	.0	.0	.7	
	11-21	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.5	
	22+	.1	.0	.0	.4	.3	.0	.0	.0	.0	.0	.7	
	TOT %	.4	.1	.0	.5	.5	.2	.0	.3	.0	.2	2.2	
2<5	0-3	.0	.1	.2	.0	.1	.0	.1	.2	.0	.3	1.1	
	4-10	.2	.2	.2	.3	.3	.2	.1	.1	.0	.0	1.7	
	11-21	.9	.1	.0	.1	.3	.3	.0	.2	.0	.0	1.8	
	22+	.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.8	
	TOT %	1.4	.4	.4	.4	1.3	.5	.2	.5	.0	.5	5.3	
5<10	0-3	.4	.1	.1	.2	.1	.2	.3	.2	.0	1.7	3.3	
	4-10	1.5	.5	.5	1.0	1.7	.6	.4	.8	.0	.0	6.9	
	11-21	4.1	.1	.2	.6	1.9	.7	.2	2.1	.0	.0	9.9	
	22+	1.6	.1	.0	.3	.8	.2	.1	.5	.0	.0	3.6	
	TOT %	7.6	.8	.8	2.1	4.5	1.6	1.0	3.6	.0	1.7	23.7	
10+	0-3	.4	.0	.3	.3	.5	.2	.2	.4	.0	4.4	7.1	
	4-10	5.2	1.7	1.0	2.1	3.2	1.4	1.9	3.7	.0	.0	20.2	
	11-21	11.3	.8	.1	1.3	3.0	1.0	.7	4.2	.0	.0	22.2	
	22+	8.9	.5	.0	.4	.8	.1	.1	1.1	.0	.0	9.8	
	TOT %	23.8	3.4	1.5	4.1	7.4	2.6	2.8	9.4	.0	4.4	59.3	
TOT OBS													
TOT PCT		35.4	5.1	2.9	7.5	14.9	5.3	4.6	15.4	.0	9.0	100.0	1498

OCTOBER

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973AREA 0037 EUREKA
40.7N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.6	1.2	2.7	5.3	14.1	5.5	3.1	.4	.0	.0	42.0	58.0	255
06009	9.9	.6	2.3	5.8	7.6	7.0	.0	.0	1.2	.6	35.1	64.9	171
12015	8.2	1.4	1.9	5.8	14.5	3.4	1.0	.0	.0	.0	36.2	63.8	207
18021	8.7	1.4	3.6	5.4	17.4	5.8	1.1	.4	.0	.7	44.6	55.4	276
TOT	80	11	25	53	127	49	13	2	2	3	365	544	909
PCT	8.8	1.2	2.8	5.8	14.0	5.4	1.4	.2	.2	.3	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.6	2.9	3.1	5.2	22.1	59.1	421
06009	5.7	1.9	1.3	4.8	20.7	65.6	314
12015	7.0	1.0	1.8	6.3	26.8	57.0	384
18021	7.1	4.0	2.5	6.3	24.2	55.9	397
TOT	105	38	34	86	357	896	1516
PCT	6.9	2.5	2.2	5.7	23.5	59.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.7	13.1	23.8	21.0	55.2	252
06009	10.2	13.8	21.0	15.6	63.5	167
12015	8.3	12.3	21.1	16.7	62.3	204
18021	8.9	15.5	24.4	22.9	52.8	271
TOT	80	123	204	175	515	894
PCT	8.9	13.8	22.8	19.6	57.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.2	.5	.2	.1	.0	11	1.0
65/69	.0	.1	.1	.2	.5	1.0	.4	.0	23	2.3
60/64	.0	.0	.0	.9	2.0	5.2	5.7	3.1	186	18.8
55/59	.0	.0	.0	.4	2.5	8.1	21.1	16.0	533	48.2
50/54	.0	.0	.0	.0	.2	2.7	13.5	15.7	344	31.1
45/49	.0	.0	.0	.0	.0	.0	.1	.5	7	.6
TOTAL	0	1	2	18	63	190	452	380	1106	100.0
PCT	.0	.1	.2	1.6	5.7	17.2	40.9	34.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.7	.1	.0	.0	.0	.0	.0	.8	.0	.2
65/69	.4	.2	.3	.0	.2	.1	.5	.3	.0	.2
60/64	4.6	1.3	.2	.7	3.3	1.9	1.3	2.2	.0	1.3
55/59	17.5	2.2	1.5	4.4	7.8	2.5	1.6	7.7	.0	3.0
50/54	11.6	1.5	.7	3.4	5.0	.8	.9	4.2	.0	2.9
45/49	.2	.1	.1	.0	.0	.0	.1	.1	.0	.0
TOTAL	35.1	5.4	2.9	8.5	16.2	5.3	4.5	14.6	.0	7.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	70	64	57	52	50	46	57.7	446
06009	67	63	61	55	51	48	48	55.7	324
12015	69	63	61	55	50	49	47	55.2	410
18021	73	70	65	57	52	49	48	57.9	438
TOT	73	69	63	56	51	49	46	56.7	1618

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.3	6.6	20.2	42.1	28.8	84	302		
06009	.0	.4	4.2	18.0	34.9	44.5	88	238		
12015	.0	1.8	3.2	10.8	42.1	42.1	88	278		
18021	.0	2.7	8.0	20.6	43.2	25.6	84	301		
TOT	0	21	63	191	457	387	86	1119		

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1861-1973

OCTOBER

TABLE 17

AREA 0037 EUREKA
40.7N 124.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FUG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.2	.1	4	.0	.3
14/16	.0	.0	.0	.0	.0	.2	.5	.0	8	.1	.6
11/13	.0	.0	.0	.2	.2	.6	.3	.0	16	.2	1.1
9/10	.0	.0	.0	.4	.6	.3	.0	.0	16	.1	1.2
7/8	.0	.0	.3	1.6	1.1	.1	.0	.0	38	.7	3.0
6	.0	.0	1.6	1.2	.3	.2	.0	.0	41	.2	3.1
5	.0	.1	3.8	1.6	1.1	.2	.0	.0	81	.6	6.1
4	.0	.1	5.1	2.7	1.1	.0	.0	.0	110	1.0	8.0
3	.0	.2	4.7	2.1	1.9	.3	.0	.0	112	.7	8.4
2	.0	3.5	3.3	3.0	1.6	.2	.0	.0	140	1.4	10.1
1	.0	1.1	4.9	3.8	1.4	.0	.0	.0	137	1.8	9.4
0	.1	1.1	5.0	3.2	.6	.0	.0	.0	122	1.4	8.6
-1	.0	1.3	3.7	3.6	.7	.0	.0	.0	113	1.4	7.9
-2	.0	1.3	3.4	2.5	.3	.0	.0	.0	92	.9	6.6
-3	.0	.7	3.0	2.1	.8	.0	.0	.0	82	.7	6.1
-4	.0	.9	1.2	1.8	.0	.0	.0	.0	42	.3	3.1
-5	.0	.5	1.2	.9	.0	.0	.0	.0	32	.2	2.5
-6	.1	.5	.4	.1	.1	.0	.0	.0	14	.3	.8
-7/-8	.0	.6	.2	.2	.0	.0	.0	.0	11	.4	.5
-9/-10	.2	.1	.1	.0	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	5		513	144	24	15			1219	144	1075
PCT	.4	12.1	42.1	30.4	11.8	2.0	1.2	.1	100.0	11.8	88.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.7	.3	.0	.0	.0	3.3	<1	.2	.4	.0	.0	.0	.0	.6
1-2	.5	3.9	4.5	.0	.0	.0	9.0	1-2	.0	1.2	.4	.0	.0	.0	1.7
3-4	.1	2.1	9.4	1.9	.0	.0	13.5	3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.6	4.1	2.1	.1	.0	6.9	5-6	.0	.3	.2	.0	.0	.0	.5
7	.0	.0	1.9	1.1	.1	.0	3.1	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.4	.5	.3	.0	1.3	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.1	.0	.4	10-11	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.0	.5	.1	.0	.7	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.1	.0	.4	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	9.5	20.7	6.6	.9	.0	38.6	TOT PCT	.2	2.3	1.1	.2	.1	.0	4.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.8	<1	.0	3.1	.0	.0	.0	.0	3.1
1-2	.0	.4	.3	.0	.0	.0	.7	1-2	.1	.8	1.0	.0	.0	.0	2.0
3-4	.0	.1	.1	.0	.0	.0	.3	3-4	.0	.3	.8	.4	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.1	.4	.5	.4	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.1	.0	.1	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.2	.4	.0	.0	.0	1.7	TOT PCT	.2	4.3	2.4	1.0	.6	.0	8.5

PERIOD: (OVER-ALL) 1963-1973

OCTOBER
TABLE 18 (CONT)

AREA 0037 EUREKA
40.7N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	2.1	.1	.0	.0	.0	2.4	.0	.6	.0	.0	.0	.0	.6
1-2	.0	2.3	2.0	.0	.0	.0	4.4	.0	1.1	.8	.0	.0	.0	1.9
3-4	.0	1.4	2.0	.7	.0	.0	4.2	.0	.2	.2	.0	.0	.0	1.3
5-6	.0	.3	.8	.9	.0	.0	2.0	.0	.0	.6	.1	.0	.0	.8
7	.0	.1	.5	.4	.3	.0	1.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.1	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.7	9.9	2.3	.7	.0	13.3	.0	1.9	1.7	.2	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.0	.0	.0	.0	.9	.3	1.2	.1	.0	.0	.0	1.6	
1-2	.0	.8	.2	.0	.0	.0	1.0	.2	2.2	1.2	.0	.0	.0	3.5	
3-4	.0	.3	.3	.0	.0	.0	.5	.0	1.0	2.9	.3	.0	.0	4.3	
5-6	.0	.1	.3	.2	.0	.0	.4	.0	.0	1.4	.2	.0	.0	1.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	1.3	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.3	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.0	.9	.0	.0	.0	3.0	.5	4.5	6.7	1.3	.1	.0	13.0	88.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.1	11.6	.6	.0	.0	.0	25.3	
1-2	.9	12.9	10.3	.0	.0	.0	24.3	
3-4	.1	5.8	16.1	3.3	.0	.0	25.4	
5-6	.0	1.5	7.8	3.9	.6	.0	13.8	
7	.0	.1	3.5	1.9	.6	.0	6.1	
8-9	.0	.1	1.2	1.2	.7	.0	3.2	
10-11	.0	.0	.0	.3	.1	.0	.4	
12	.0	.0	.0	.7	.1	.0	.9	
13-16	.0	.0	.0	.3	.3	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.1	32.1	39.7	11.6	2.5	.0	100.0	688

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	9.8	10.0	5.8	3.3	1.5	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	4
6-7	.0	4.6	9.5	7.9	5.2	1.8	1.2	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	316	5
8-9	.0	1.8	2.7	4.1	3.8	3.3	1.7	.9	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	198	7
10-11	.0	.3	.6	.7	.8	.8	.7	.6	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	55	9
12-13	.0	.0	.1	.2	.5	.2	.6	.1	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	24	10
>13	.0	.0	.0	.2	.0	.0	.2	.1	.2	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	12	16
INDEX	2.7	.3	.8	.5	.7	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
TOTAL	39	168	237	194	143	79	57	29	34	9	4	1	2	0	0	0	0	0	0	996	5
PCT	3.9	16.9	23.8	19.5	14.4	7.9	5.7	2.9	3.4	.9	.4	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1877-1973

AREA 0037 EUREKA
40.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.2	.1	1.3	.0	.0	.0	.0	2.7	.5	.8	6.0	.3	3.7	.0	86.1
NE	5.9	1.4	2.3	.0	.0	.0	.0	9.5	.2	.5	6.1	.5	6.8	.0	76.5
E	15.2	.0	.0	.0	.0	.0	.0	15.2	.0	.0	12.2	1.0	2.0	.0	69.5
SE	16.6	2.7	5.4	.0	.0	.0	.0	24.4	3.3	.7	8.4	.0	2.8	.3	60.1
S	18.0	.9	6.3	.0	.0	.0	.0	24.2	4.6	.2	8.0	.3	2.0	1.3	59.2
SW	15.8	5.1	1.3	.0	.0	.0	.0	21.6	3.6	.0	6.7	.0	1.3	.0	66.8
W	7.7	11.8	4.5	.0	.0	.0	.0	23.0	2.2	1.3	13.7	.0	.0	.0	61.0
NW	5.4	1.0	1.7	.0	.0	.0	.0	8.1	4.2	.3	12.0	.0	3.0	.0	72.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	12.0	.0	10.0	.0	76.0
TOT PCT	9.7	1.8	3.2	.0	.0	.0	.0	14.4	2.5	.5	8.3	.2	3.2	.4	70.8
TOT OBS:	1426														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	11.4	1.8	3.7	.0	.0	.0	.0	19.0	2.1	.0	9.6	.0	3.1	.0	66.2
0600	8.5	1.8	2.4	.0	.0	.0	.0	12.2	2.7	.9	9.1	.0	2.7	.0	72.6
1200	10.1	2.2	2.2	.0	.0	.0	.0	14.2	2.5	.5	8.6	.3	2.7	.8	72.3
1800	8.3	1.6	2.4	.0	.0	.0	.0	11.8	2.4	.5	8.8	.5	4.5	.5	70.9
TOT PCT TOT OBS:	9.6 1453	1.9	3.2	.0	.0	.0	.0	14.4	2.4	.5	8.5	.2	3.3	.3	70.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.1	8.2	12.3	4.3	1.0	.0		26.8	15.0		31.1	28.1	28.8	21.5	27.7	16.1	25.6	25.0
NE	.6	3.5	2.7	.5	.1	.0		7.3	11.4		4.8	11.1	6.2	7.7	5.6	14.0	6.4	10.3
E	.8	1.7	.5	.2	.0	.0		2.2	8.3		2.0	4.1	1.9	2.1	3.2	4.1	3.2	7.0
SE	.7	4.0	4.7	2.2	.2	.0		11.7	14.6		8.7	7.8	10.5	14.4	12.0	12.6	17.2	11.1
S	.8	5.7	8.3	6.4	1.3	.1		22.6	18.1		24.2	17.0	24.7	19.4	23.1	20.9	23.1	21.1
SW	1.0	3.9	2.5	.6	.1	.0		8.1	11.6		7.9	12.3	6.5	8.3	8.3	13.2	5.5	8.6
W	.5	2.5	1.8	.4	.1	.0		5.3	11.5		4.3	4.3	5.1	10.6	6.6	5.0	4.9	4.8
NW	1.0	3.5	4.2	1.9	.2	.0		10.8	13.6		12.8	9.6	13.0	7.4	10.1	9.1	10.4	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		4.2	5.7	3.3	8.5	3.2	5.0	3.8	3.4
TOT OBS	166	527	587	262	47	1	1590		14.0		311	122	274	71	279	121	266	146
TOT PCT	10.4	33.1	36.9	16.5	3.0	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	4.7	11.8	8.1	2.0	.2		26.8	15.0	30.3	27.3	24.2	25.4	
NE	2.0	3.8	1.2	.3	.0		7.3	11.4	6.6	6.5	8.2	7.8	
E	1.7	1.2	.3	.1	.0		3.2	8.3	2.6	2.0	3.5	4.6	
SE	2.7	4.3	3.6	1.1	.0		11.7	14.6	8.4	11.3	12.2	15.0	
S	2.5	8.9	6.6	4.3	.3		22.6	18.1	22.2	23.6	22.4	22.4	
SW	2.2	4.0	1.6	.3	.1		8.1	11.6	9.1	6.9	9.8	6.6	
W	1.4	2.6	1.2	.1	.0		5.3	11.5	4.3	6.2	6.1	4.9	
NW	2.8	4.5	2.7	.8	.0		10.8	13.6	11.9	11.8	9.8	9.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.1						4.1	.0	4.6	4.3	3.8	3.6	
TOT OBS	383	654	401	142	10	1990		14.0	433	345	400	412	
TOT PCT	24.1	41.1	25.2	8.9	.6		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1877-1973

NOVEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 4
PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.6	6.9	30.7	33.7	20.6	3.5	.0	14.7	100.0	433
0600	4.3	3.5	31.9	36.2	20.9	2.9	.3	15.1	100.0	345
1200	3.8	8.0	35.8	37.3	12.8	2.5	.0	13.1	100.0	400
1800	3.6	6.6	34.2	40.5	12.1	2.9	.0	13.1	100.0	412
TOT	85	101	527	587	262	47	1	14.0		1590
PCT	4.1	6.4	33.1	36.9	16.5	3.0	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OVS	TOTAL OBS	MEAN CLOUD COVER
N	14.9	3.1	6.2	4.0		3.1
NE	2.2	.9	1.6	1.3		4.2
E	.6	.2	.6	.9		5.2
SE	1.8	.9	3.3	5.6		6.0
S	1.3	1.8	6.3	13.9		6.7
SW	1.1	1.0	.9	4.2		6.1
W	1.4	.5	1.7	2.4		5.5
NW	4.6	2.0	2.6	2.3		3.9
VAR	.0	.0	.0	.0		.0
CALH	1.9	.6	.3	.9		3.3
TOT OBS	267	98	211	318	894	4.8
TOT PCT	29.9	11.0	23.6	35.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.3	.6	1.9	2.4	1.5	.9	.1	.3	.2	19.4	
NE	.3	.0	.3	.3	1.0	.4	.2	.0	.0	.0	3.4	
E	.2	.0	.0	.2	.3	.4	.0	.0	.0	.0	1.3	
SE	.9	.3	.4	.8	2.3	1.0	.7	.5	.3	.4	4.1	
S	1.6	.2	1.1	3.5	6.8	2.3	1.1	.2	.6	.4	5.5	
SW	.9	.2	.3	.5	1.6	.4	.1	.1	.2	.2	2.5	
W	.4	.1	.3	.8	1.3	.4	.2	.0	.2	.1	7.4	
NW	.7	.1	.3	.8	1.3	.4	.0	.2	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALH	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
TOT OBS	55	10	31	79	159	62	28	10	13	12	425	894
TOT PCT	6.2	1.1	3.5	8.8	17.8	6.9	3.1	1.1	1.5	1.3	48.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	2.6	2.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	3.3	3.6	3.9	3.9	4.0	4.0	4.0	4.0	4.0
= OR >3500	5.4	6.6	6.9	6.9	7.0	7.0	7.0	7.0	7.0
= OR >2000	9.7	12.8	14.0	14.1	14.2	14.2	14.2	14.2	14.2
= OR >1000	21.4	28.5	31.3	31.3	31.8	31.8	31.9	31.9	31.9
= OR >600	26.2	36.6	40.0	40.2	40.6	40.6	40.7	40.7	40.7
= OR >300	27.3	38.9	43.2	43.6	44.2	44.2	44.3	44.3	44.3
= OR >150	27.6	39.5	44.1	44.6	45.2	45.2	45.3	45.3	45.3
= OR >0	27.9	40.5	45.9	46.7	48.3	49.8	50.9	51.5	51.5
TOTAL	253	368	417	424	439	452	462	468	468

TOTAL NUMBER OF OBS: 908

PCT FREQ NH <5/8: 48.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
23.7	5.0	6.1	7.3	5.4	4.3	6.6	9.4	27.2	5.0	963

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1877-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.1	.1	.1	.2	.0	.0	.0	.0	.6	
	NO PCP	.5	.2	.2	.4	.5	.1	.2	.5	.0	.2	2.7	
	TOT %	.5	.4	.2	.5	.6	.3	.2	.5	.0	.2	3.4	
1/2<1	PCP	.1	.0	.0	.1	.2	*	.0	.0	.0	.0	.6	
	NO PCP	.4	.1	.1	.2	.6	.1	.2	.2	.0	.0	2.0	
	TOT %	.5	.1	.1	.3	.9	.2	.2	.2	.0	.0	2.5	
1<2	PCP	.1	.2	.1	.1	.3	*	.2	.0	.0	.0	1.0	
	NO PCP	*	.1	.0	.3	.3	*	.1	.1	.0	.1	1.0	
	TOT %	.1	.4	.1	.4	.6	.1	.3	.1	.0	.1	2.0	
2<5	PCP	.1	.1	.0	.7	2.0	.3	.1	.2	.0	.0	3.4	
	NO PCP	.5	*	.1	.3	.9	.5	.1	.5	.0	.1	3.0	
	TOT %	.6	.1	.1	1.0	2.9	.8	.2	.6	.0	.1	6.4	
5<10	PCP	.2	.1	.4	1.6	2.4	.7	.3	.4	.0	.0	6.1	
	NO PCP	4.0	1.0	.4	1.5	4.9	1.7	.7	1.9	.0	.6	16.6	
	TOT %	4.2	1.1	.8	3.1	7.3	2.4	1.0	2.3	.0	.6	22.7	
10+	PCP	.	.1	.0	.3	.7	.4	.7	.3	.0	.1	2.6	
	NO PCP	20.1	5.6	2.2	6.1	10.6	3.7	2.9	6.5	.0	2.5	60.5	
	TOT %	20.5	5.8	2.2	6.4	11.3	4.1	3.6	6.8	.0	2.5	63.1	
TOT OBS													1421
TOT PCT		26.3	7.8	3.5	11.7	23.5	7.8	9.5	10.4	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.1	.1	.1	.0	.1	.0	.3	1.1	
	4-10	.4	.1	.1	*	.3	.2	.2	.2	.0		1.5	
	11-21	.1	.1	.1	.3	.2	*	.0	.1	.0		1.0	
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0		.2	
	TOT %	.7	.4	.3	.5	.6	.4	.2	.5	.0	.3	3.8	
1/2<1	0-3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	.3	.1	.0	.3	.3	.1	.2	.1	.0		1.3	
	11-21	.2	*	.0	.0	.4	.1	.0	.1	.0		.9	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.5	.1	.1	.4	.8	.2	.2	.1	.0	.0	2.5	
1<2	0-3	.1	.0	.1	.1	.1	.0	.0	.0	.0	.1	.5	
	4-10	*	.3	.0	*	.2	*	*	.1	.0		.8	
	11-21	.0	.0	.0	.1	.2	.1	.2	.0	.0		.5	
	22+	.0	.0	.0	.1	.2	.1	.0	.0	.0		.3	
	TOT %	.1	.3	.1	.3	.6	.1	.2	.1	.0	.1	2.1	
2<5	0-3	.0	.0	.0	.0	.0	.1	*	.1	.0	.3	.6	
	4-10	.2	.1	.1	.2	.3	.5	.1	.2	.0		1.6	
	11-21	.4	*	.0	.5	1.0	.1	.1	.3	.0		2.4	
	22+	.0	.0	.0	.3	1.5	.1	.0	.0	.0		1.9	
	TOT %	.6	.1	.1	.9	2.9	.9	.2	.6	.0	.3	6.5	
5<10	0-3	*	.1	.1	.1	.1	.4	.0	.2	.0	.6	1.6	
	4-10	1.3	.4	.5	.9	1.5	1.0	.6	.6	.0		6.7	
	11-21	1.6	.5	*	1.0	2.8	.7	.2	.9	.0		7.7	
	22+	1.1	*	.1	1.4	2.8	.3	.2	.4	.0		6.3	
	TOT %	4.0	1.0	.7	3.3	7.3	2.3	.9	2.2	.0	.6	22.3	
10+	0-3	.8	.3	.3	.6	.4	.5	.4	.0	2.8		6.4	
	4-10	5.6	2.5	1.2	2.5	3.1	2.3	1.4	1.9	.0		20.5	
	11-21	10.2	2.1	.4	2.9	3.9	1.4	1.4	2.8	.0		25.1	
	22+	4.1	.6	.1	.7	3.4	.2	.2	1.5	.0		10.8	
	TOT %	20.7	5.5	2.0	6.4	10.9	4.2	3.5	6.7	.0	2.8	62.8	
TOT OBS													1516
TOT PCT		26.7	7.4	3.3	11.8	23.2	8.1	9.3	10.2	.0	4.0	100.0	

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PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1877-1973

AREA 0037 EUREKA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 899	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.5	1.5	3.8	9.5	19.8	7.6	3.4	1.9	1.5	1.9	57.6	42.4	262
06009	6.6	1.4	3.8	8.5	12.3	6.2	1.9	.9	1.4	.5	43.6	56.4	211
12015	5.6	.5	3.0	8.1	12.1	4.0	2.5	1.5	.5	1.5	39.4	60.6	198
18021	6.2	.8	3.1	8.2	23.0	9.7	3.9	.0	1.9	1.6	58.4	41.6	257
TOT	58	10	32	80	161	66	28	10	13	13	471	457	928
PCT	6.3	1.1	3.4	8.6	17.3	7.1	3.0	1.1	1.4	1.4	50.8	49.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	9.7	1.7	1.7	7.9	23.7	59.3	418
06009	4.1	2.0	2.3	5.5	18.9	67.2	344
12015	3.8	2.3	1.8	5.4	20.8	59.9	392
18021	1.8	4.4	2.8	6.7	18.8	65.5	388
TOT	60	40	33	99	342	968	1542
PCT	3.9	2.6	2.1	6.4	22.2	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.2	12.8	28.0	31.5	40.5	257
06009	6.7	12.0	23.1	22.1	54.8	208
12015	5.7	9.9	21.9	20.8	57.3	192
18021	6.4	11.6	25.1	36.7	58.2	251
TOT	37	106	225	259	424	908
PCT	6.3	11.7	24.8	28.5	46.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
65/69	.0	.0	.1	.1	.1	.1	.2	.7	7	.6
60/64	.0	.0	.2	.4	1.6	1.4	2.0	.8	71	6.3
55/59	.0	.0	.0	.4	1.3	7.7	17.6	18.9	513	45.8
50/54	.0	.0	.0	.1	2.1	6.1	15.8	14.8	436	39.0
45/49	.0	.0	.0	.0	.4	.8	3.4	2.4	78	7.0
40/44	.0	.0	.0	.0	.0	.0	.4	.7	13	1.2
TOTAL	0	0	3	11	62	180	440	423	1119	100.0
PCT	.0	.0	.3	1.0	5.5	16.1	39.3	37.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.1	.1	.2	.1	.0	.0	.0	.1	.0	.1
60/64	1.4	.3	.1	1.1	1.7	.7	.2	.6	.0	.3
55/59	8.1	2.9	1.0	6.9	14.9	3.8	2.5	3.3	.0	2.6
50/54	13.2	3.6	1.4	3.1	6.5	3.0	2.5	4.8	.0	.8
45/49	1.4	1.1	.6	.6	1.0	1.0	.4	.8	.0	.2
40/44	.2	.4	.2	.0	.0	.1	.2	.1	.0	.0
TOTAL	24.4	8.6	3.4	11.7	24.0	8.6	5.8	9.6	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	64	61	55	48	43	42	55.1	441
06009	63	61	59	54	49	47	44	54.3	353
12015	63	61	59	54	47	42	41	53.5	404
18021	71	63	60	55	49	44	42	59.0	415
TOT	73	63	60	55	48	44	41	54.5	1613

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	6.9	19.4	34.7	36.8	85	288
06009	.0	.4	3.4	11.8	44.7	39.7	88	262
12015	.0	.7	4.9	12.2	38.7	43.6	87	287
18021	.0	1.7	6.6	20.2	39.4	32.1	85	302
TOT	0	14	63	183	447	432	86	1139

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1877-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0		1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.3	.0		5	.1	.3
9/10	.0	.0	.0	.0	.1	.5	.1	.1	.1	10	.1	.7
7/8	.0	.0	.0	.0	.6	.8	.0	.0	.0	17	.2	1.2
6	.0	.0	.0	.2	.6	.6	.0	.0	.0	17	.1	1.3
5	.0	.0	.0	1.0	2.4	.5	.0	.0	.0	48	.5	3.4
4	.0	.0	.1	.7	3.4	.4	.0	.0	.0	57	.8	3.8
3	.0	.0	.1	2.9	4.3	.4	.0	.0	.0	95	1.0	6.6
2	.0	.0	.7	5.4	4.2	.3	.0	.0	.0	132	1.0	9.6
1	.0	.1	.5	7.0	4.4	.1	.0	.0	.0	190	1.0	11.1
0	.0	.0	1.8	9.2	2.2	.2	.0	.0	.0	166	1.3	12.0
-1	.0	.2	2.6	6.6	1.5	.0	.0	.0	.0	195	.8	10.0
-2	.0	.1	3.7	5.1	1.2	.0	.0	.0	.0	125	.3	9.7
-3	.0	.1	2.2	3.7	1.0	.0	.0	.0	.0	88	.2	6.9
-4	.0	.2	2.6	2.1	.4	.1	.0	.0	.0	67	.4	5.0
-5	.2	.5	2.4	1.8	.4	.0	.0	.0	.0	66	.5	4.8
-6	.0	.4	1.2	.2	.0	.0	.0	.0	.0	23	.2	1.7
-7/-8	.0	.2	1.0	.4	.1	.0	.0	.0	.0	23	.1	1.7
-9/-10	.1	.2	.5	.2	.0	.0	.0	.0	.0	13	.1	1.0
-11/-13	.0	.1	.3	.1	.1	.0	.0	.0	.0	7	.0	.6
TOTAL	3	26	243	580	48	6	2	1		1245	106	1139
PCT	.2	2.1	19.7	46.0	26.8	3.9	.5	.2	.1	100.0	8.5	91.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.9	.1	.0	.0	.0	2.5	<1	.1	1.6	.0	.0	.0	.0	1.8
1-2	.1	1.5	1.3	.0	.0	.0	3.0	1-2	.0	1.0	.9	.0	.0	.0	1.9
3-4	.0	1.5	4.0	.4	.0	.0	5.9	3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.4	4.4	2.2	.0	.0	7.1	5-6	.0	.0	.8	.3	.0	.0	1.1
7	.0	.1	1.5	1.4	.3	.0	3.3	7	.0	.1	.1	.1	.0	.0	.4
8-9	.0	.0	1.3	.4	.0	.0	1.7	8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.5	.0	.0	.5	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.6	.0	.0	.6	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.3	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.5	12.7	5.7	.5	.0	24.9	TOT PCT	.1	3.2	2.9	.8	.1	.0	7.1

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.1	<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.5	.0	.0	.0	.0	.5	1-2	.3	1.9	.5	.0	.0	.0	2.7
3-4	.0	.3	.0	.0	.0	.0	.3	3-4	.0	.1	2.3	.8	.0	.0	3.3
5-6	.0	.0	.5	.1	.0	.0	.7	5-6	.0	.1	.7	1.2	.1	.0	2.2
7	.0	.1	.0	.0	.0	.0	.1	7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.1	.1	.6	.0	.0	1.0
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.6	.5	.3	.0	.0	2.9	TOT PCT	.3	3.1	4.5	3.4	.3	.0	11.5

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.5	.0	.0	.0	.0		1.8	.0	.3	.0	.0	.0	.0		.3
1-2	.0	1.4	1.8	.0	.0	.0		3.0	.1	.6	.4	.0	.0	.0		1.2
3-4	.0	1.8	3.3	2.1	.0	.0		7.2	.1	.9	.8	.3	.0	.0		2.2
5-6	.0	.3	2.3	3.3	.6	.0		6.4	.0	.4	.6	.1	.0	.0		1.0
7	.0	.1	1.3	1.2	.7	.0		3.4	.0	.0	.3	.0	.0	.0		.3
8-9	.0	.0	.0	1.2	.3	.1		1.6	.1	.0	.3	.2	.0	.0		.7
10-11	.0	.0	.0	.7	.2	.0		1.4	.0	.0	.0	.2	.0	.0		.2
12	.0	.0	.0	.4	.2	.0		.7	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.2	.1	.0		.4	.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	5.1	9.1	9.1	2.2	.1		25.9	.4	2.1	2.5	.8	.2	.0		6.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.4	.3	.9	.0	.0	.0	.0		1.2	
1-2	.1	.9	.1	.0	.0	.0		1.2	.0	.7	.3	.0	.0	.0		1.0	
3-4	.0	.4	.4	.1	.0	.0		.9	.0	.4	1.6	.3	.0	.0		2.4	
5-6	.0	.3	.7	.3	.0	.0		1.2	.0	.2	1.6	.7	.0	.0		2.5	
7	.0	.1	.4	.1	.0	.0		.6	.0	.0	1.4	.1	.0	.0		2.0	
8-9	.0	.1	.4	.0	.0	.0		.5	.0	.0	.2	.3	.0	.0		.5	
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.2	.1	.0		.3	
12	.0	.0	.1	.0	.0	.0		.1	.0	.0	.2	.1	.0	.0		.3	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	2.0	2.2	.5	.0	.0		5.1	.3	2.3	5.4	2.8	.1	.0		10.7	94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	7.8	.1	.0	.0	.0	15.9	
1-2	1.3	8.7	5.2	.0	.0	.0	15.2	
3-4	.1	5.8	13.4	4.0	.0	.0	23.4	
5-6	.0	1.8	11.4	8.1	.7	.0	21.8	
7	.0	.7	5.8	3.8	1.0	.0	11.1	
8-9	.1	.3	2.3	3.0	.3	.1	6.2	
10-11	.0	.0	.7	1.9	.4	.0	3.0	
12	.0	.0	.3	1.2	.3	.0	1.7	
13-16	.0	.0	.0	.7	.4	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.1	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	24.9	39.3	22.8	3.3	.1	100.0	692

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.4	6.2	3.7	3.4	1.4	1.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	5
6-7	.0	1.6	7.4	7.8	5.3	5.7	2.7	1.0	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	347	6
8-9	.0	1.6	9.4	4.7	4.5	4.7	2.7	1.4	1.5	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	284	7
10-11	.0	.8	.5	.6	.7	1.4	1.4	.9	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	75	9
12-13	.0	.0	.3	.4	.4	.2	.2	.6	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	29	10
>13	.0	.0	.0	.1	.1	.4	.2	.1	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	14	12
INDEX	1.6	.9	1.4	.8	.9	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	4
TOTAL	28	97	223	187	160	146	93	48	50	6	8	3	1	0	0	0	0	0	0	1050	6
PCT	2.7	9.2	21.2	17.8	15.2	13.9	8.9	4.6	4.8	.6	.8	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1972
(OVER-ALL) 1862-1972

DECEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	1.1	.0	.0	.0	.0	1.1	2.6	.0	3.1	.7	.0	.0	92.4
NE	6.1	6.8	3.7	.0	1.0	.0	.0	17.6	.2	.0	3.2	.0	2.9	.0	76.1
E	8.4	4.5	6.2	.0	.0	.0	.0	19.1	3.4	.0	3.9	.0	3.4	.0	70.2
SE	15.1	1.1	6.1	.0	.0	.0	.0	22.0	1.1	.0	4.8	.0	1.9	.0	70.2
S	19.8	3.7	7.3	.0	.0	.0	.0	30.3	3.4	.7	6.2	1.1	.4	.0	59.7
SW	11.7	7.0	8.6	.0	.0	.0	.0	23.2	6.2	.0	2.7	.0	1.6	.0	64.3
W	7.5	3.6	1.9	.0	.0	.0	.0	13.1	5.6	.0	4.4	1.0	.0	.0	76.0
NW	4.9	.9	5.3	.0	.0	.0	.0	11.2	.6	.0	2.8	.4	1.5	.8	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.7	.0	.0	.0	.0	.0	.0	10.7	.0	.0	3.6	.0	3.6	.0	82.1
TOT PCT	10.2	3.0	4.7	.0	.1	.0	.0	17.8	2.8	.2	4.1	.5	1.1	.1	73.5
TOT OBS:	1161														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	7.5	3.1	7.2	.0	.0	.0	.0	17.8	2.2	.0	4.4	1.6	1.3	.0	72.8
0600	12.6	.4	3.0	.0	.0	.0	.0	15.2	2.2	.0	4.3	.0	.9	.4	77.0
1200	11.8	4.2	4.9	.0	.3	.0	.0	21.2	4.2	.3	4.2	.0	.7	.0	69.8
1800	9.6	3.5	4.1	.0	.0	.0	.0	17.1	3.2	.3	4.1	.3	1.4	.0	73.9
TOT PCT	10.1	3.0	4.9	.0	.1	.0	.0	17.9	3.0	.2	4.2	.5	1.1	.1	73.2
TOT OBS:	1183														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	5.0	8.1	3.8	.7	.1		18.0	16.4		23.9	16.1	18.6	20.3	19.4	11.0	16.4	13.8
NE	1.1	3.8	2.8	.4	.1	.0		8.3	10.5		3.1	13.8	6.4	11.3	7.5	19.3	3.8	11.0
E	.7	1.6	1.0	.3	.1	.0		3.8	11.1		3.5	6.0	2.9	4.7	3.4	7.0	3.1	2.8
SE	.6	4.9	4.0	2.2	.6	.1		12.4	15.1		8.9	10.3	11.3	19.9	10.2	13.6	14.4	17.1
S	.8	6.1	7.4	7.1	2.0	.4		23.9	18.9		25.8	18.6	26.1	21.1	25.8	20.4	25.4	20.9
SW	.6	3.7	4.3	1.7	.2	.1		10.7	14.0		12.0	13.5	9.7	1.6	9.5	12.9	8.1	15.4
W	.5	2.8	3.7	.7	.4	.1		8.3	14.4		6.8	6.4	10.2	10.2	8.2	6.1	11.0	6.1
NW	.5	4.7	4.1	1.5	.2	.1		11.0	13.6		13.1	8.0	12.0	6.3	12.7	6.1	13.0	8.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0		3.0	7.3	2.7	4.7	3.2	3.5	2.7	4.4
TOT OBS	121	447	496	243	58	13	1368		14.8		206	109	183	64	216	114	237	139
TOT PCT	8.8	32.7	35.5	17.8	4.2	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	2.4	7.7	5.7	2.0	.2		18.0	16.4		21.6	19.0	16.5	15.4	
NE	2.9	3.9	1.0	.4	.0		8.3	10.5		6.2	7.7	11.6	7.8	
E	1.7	1.4	.4	.2	.1		3.8	11.1		4.2	3.3	4.6	3.0	
SE	2.4	5.4	3.1	1.2	.3		12.4	15.1		9.3	13.6	11.4	15.4	
S	3.6	7.8	7.4	4.6	.5		23.9	18.9		23.7	24.8	23.9	23.7	
SW	2.2	5.1	2.7	.6	.1		10.7	14.0		12.5	7.6	10.7	10.9	
W	1.7	3.7	2.2	.5	.1		8.3	14.4		6.7	10.2	7.5	9.1	
NW	2.1	5.7	2.7	.3	.2		11.0	13.6		11.6	10.5	10.5	11.2	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.6						3.6	.0		4.3	3.2	3.3	3.4	
TOT OBS	309	999	345	133	22	1368		14.8		375	247	330	416	
TOT PCT	22.6	40.9	25.2	9.7	1.6		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1942-1972
(OVER-ALL) 1862-1972

DECEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	4.3	6.1	29.3	36.8	18.1	4.8	.5	14.9	100.0	375
0600	3.2	2.4	34.4	36.0	17.8	4.0	2.0	15.3	100.0	247
1200	3.3	6.1	37.6	31.8	16.1	4.5	.8	14.1	100.0	330
1800	3.4	5.5	30.8	37.0	18.8	3.6	1.0	15.0	100.0	416
TOT	49	72	447	486	243	58	13	14.8		1368
PCT	3.6	5.3	32.7	35.5	17.8	4.2	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.9	3.6	5.9	2.1		3.2
NE	3.0	.4	1.8	.7		3.2
E	.3	.7	1.1	1.3		6.0
SE	1.7	.9	4.0	3.4		5.7
S	1.4	1.8	4.7	13.2		6.8
SW	.5	.6	3.9	4.2		6.7
W	.7	1.2	3.9	4.0		6.3
NW	3.1	2.5	5.9	2.8		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	1.2	1.2		5.4
TOT OBS	154	84	222	226	686	5.2
TOT PCT	22.4	12.2	32.4	32.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.3	.3	1.2	2.2	.8	.7	.0	.1	.1	16.7	
.0	.0	.0	.3	.3	.7	.4	.0	.0	.0	4.5	
.0	.0	.0	.5	1.3	.2	.0	.0	.0	.0	1.5	
.1	.1	.5	1.1	2.6	1.0	.9	.0	.0	.1	3.5	
.9	.4	1.7	4.1	4.6	3.0	.6	.1	.0	.1	5.5	
.2	.1	.7	1.0	3.5	1.4	.4	.1	.0	.1	1.6	
.5	.2	.4	2.3	2.5	.8	.0	.0	.1	.0	3.0	
.1	.1	.1	2.0	2.4	1.8	.0	.1	.1	.0	7.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	1.0	.3	.0	.0	.0	.0	1.7	
14	8	25	87	140	69	21	3	3	4	312	686
2.0	1.2	3.6	12.7	20.4	10.1	3.1	.4	.4	.6	45.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3000	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>2500	3.6	3.9	4.2	4.5	4.5	4.5	4.5	4.5
>2000	11.4	13.3	14.1	14.4	14.4	14.4	14.4	14.4
>1500	26.0	32.0	34.3	34.8	34.9	35.1	35.1	35.1
>1000	35.5	43.1	46.8	47.3	47.5	47.6	47.6	47.6
>500	39.4	45.7	49.9	50.9	51.1	51.2	51.2	51.2
>150	39.4	46.5	50.9	51.9	52.2	52.4	52.4	52.4
>0	39.5	46.8	51.5	52.8	53.5	53.7	54.0	54.1
TOTAL	246	324	357	366	371	372	374	375

TOTAL NUMBER OF OBS: 693

PCT FREQ NH <5/8: 45.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.2	5.4	8.0	8.5	5.9	7.8	8.1	12.5	26.3	761

PERIOD: (PRIMARY) 1942-1972
(OVER-ALL) 1862-1972

DECEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.3	.0	.0	.0	.1	.6	
	NO PCP	.2	.1	.0	.1	.6	.2	.1	.0	.0	.0	1.3	
	TOT %	.2	.1	.0	.1	.8	.6	.1	.0	.0	.1	1.9	
1/2<1	PCP	.0	.1	.0	.1	.5	*	*	.0	.0	.0	.8	
	NO PCP	.1	.2	.1	*	.2	.0	.1	.1	.0	.0	.8	
	TOT %	.1	.3	.1	.1	.7	*	.1	.1	.0	.0	1.6	
1<2	PCP	.0	.2	.0	.2	.3	.2	*	.0	.0	.0	.9	
	NO PCP	.1	.0	*	.3	.2	.0	.0	.0	.0	.0	.7	
	TOT %	.1	.2	*	.5	.5	.2	*	.0	.0	.0	1.6	
2<5	PCP	*	.1	.0	.4	2.0	.7	.2	.1	.0	.0	3.6	
	NO PCP	.6	.0	.1	.1	1.0	.1	.2	.2	.0	.0	2.2	
	TOT %	.6	.1	.1	.5	3.0	.8	.4	.3	.0	.0	5.9	
5<10	PCP	.2	.5	.4	1.5	2.8	1.1	.5	.4	.0	.0	7.4	
	NO PCP	1.2	.4	.3	1.3	4.5	2.1	1.9	1.3	.0	.3	13.2	
	TOT %	1.3	1.0	.7	2.9	7.3	3.2	2.4	1.7	.0	.3	20.7	
10+	PCP	.0	.6	.3	.3	1.6	.4	.4	.8	.0	.2	4.6	
	NO PCP	19.6	6.6	2.6	6.9	10.4	5.9	5.3	8.6	.0	1.9	63.9	
	TOT %	19.6	7.2	2.9	7.2	12.0	6.3	5.7	9.4	.0	2.1	68.5	
TOT OBS													1157
TOT PCT		10.0	8.9	3.8	11.3	24.3	11.1	8.7	11.4	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2	
	4-10	.1	.1	.0	*	.4	.3	.1	.0	.0	.0	1.0	
	11-21	.1	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.0	.1	.7	.5	.1	.0	.0	.2	1.8	
1/2<1	0-3	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.3	
	4-10	.0	.2	.1	.1	.2	.1	*	.0	.0	.0	.6	
	11-21	.1	.0	.0	*	.4	.0	.0	*	.0	.0	.6	
	22+	.1	*	.0	*	.3	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.3	.2	.1	.8	.1	.1	.1	.0	.0	1.9	
1<2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	*	.4	.0	.0	.0	.0	.0	.0	.6	
	11-21	.1	.2	.0	.2	.1	.1	*	.0	.0	.0	.6	
	22+	.0	.0	.0	.1	.4	*	.0	.0	.0	.0	.6	
	TOT %	.2	.2	.1	.8	.5	.1	*	.0	.0	.0	1.8	
2<5	0-3	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	
	4-10	.4	*	.1	.2	.2	.1	.2	*	.0	.0	1.3	
	11-21	.2	.1	.0	.1	.7	.3	.1	.2	.0	.0	1.7	
	22+	.0	.0	.0	.2	1.7	.3	.0	.1	.0	.0	2.3	
	TOT %	.6	.1	.1	.5	2.8	.8	.4	.3	.0	.0	5.3	
5<10	0-3	.0	.1	.1	.1	.0	.1	.1	.0	.0	.3	.7	
	4-10	.7	.5	.1	.9	1.4	1.0	.7	.8	.0	.0	6.0	
	11-21	.6	.2	.3	.5	1.3	1.2	.5	.6	.0	.0	5.5	
	22+	.1	.1	.1	1.3	4.2	.7	.7	.3	.0	.0	7.4	
	TOT %	1.3	.9	.6	2.8	6.9	3.0	2.2	1.6	.0	.3	19.7	
10+	0-3	.4	.9	.6	.3	.6	.5	.2	.4	.0	2.9	6.8	
	4-10	3.8	3.2	1.4	3.1	3.9	2.1	1.7	4.0	.0	.0	23.1	
	11-21	7.0	2.5	.8	3.1	4.7	2.4	2.8	3.4	.0	.0	26.7	
	22+	4.7	.5	.3	1.1	3.2	1.0	.6	1.4	.0	.0	12.7	
	TOT %	15.9	7.0	3.0	7.6	12.4	6.0	5.4	9.2	.0	2.9	69.3	
TOT OBS													1263
TOT PCT		18.3	6.5	3.9	11.9	24.1	10.6	8.2	11.2	.0	3.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1972
(OVER-ALL) 1862-1972

AREA 0037 EUREKA
40.7N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.1	.0	5.7	12.4	23.3	8.8	2.1	1.0	.5	.0	56.0	44.0	193
06009	2.3	1.6	2.3	7.8	14.1	9.4	3.9	.0	.8	.0	42.2	57.8	128
12015	2.0	2.7	2.0	13.3	15.3	7.3	3.3	.7	.0	1.3	48.0	52.0	190
18021	1.7	.8	3.3	13.6	24.0	12.0	2.9	.0	.4	.8	59.5	40.5	242
TOT	14	8	25	87	144	69	21	3	3	4	378	335	713
PCT	2.0	1.1	3.5	12.2	20.2	9.7	2.9	.4	.4	.6	53.0	47.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.9	2.5	2.9	6.4	18.3	68.4	361
06009	2.0	1.2	2.0	4.1	17.1	73.6	246
12015	2.9	2.2	2.2	4.5	24.2	64.0	314
18021	1.1	1.4	1.6	7.1	18.0	70.8	367
TOT	25	24	27	73	250	889	1288
PCT	1.9	1.9	2.1	5.7	19.4	69.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.6	7.5	25.7	32.6	41.7	187
06009	2.4	6.3	17.5	26.2	56.3	126
12015	2.0	6.8	24.3	25.0	50.7	148
18021	1.3	6.5	22.8	39.2	37.9	232
TOT	12	47	159	222	312	693
PCT	1.7	6.8	22.9	32.0	45.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
65/69	.0	.0	.0	.1	.0	.1	.1	.0	3	.3
60/64	.0	.0	.0	.3	.2	.5	.9	.4	23	2.3
55/59	.0	.0	.1	.2	1.0	3.5	7.1	4.0	156	15.9
50/54	.0	.0	.1	.7	5.8	9.3	19.3	17.8	521	53.0
45/49	.0	.3	.1	.4	3.0	5.6	5.3	7.8	221	22.5
40/44	.0	.0	.1	.0	.4	.4	1.1	2.8	48	4.9
35/39	.0	.0	.0	.1	.0	.2	.0	.7	10	1.0
TOTAL	0	3	4	18	102	193	333	330	983	100.0
PCT	.0	.3	.4	1.8	10.4	19.6	33.9	33.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0
60/64	.6	.1	.0	.2	.3	.4	.2	.6	.0	.1
55/59	1.7	.8	.4	2.0	6.5	1.7	1.0	1.5	.0	.3
50/54	10.8	5.4	1.4	6.1	13.1	6.3	4.9	6.2	.0	.8
45/49	3.7	3.5	1.0	3.3	3.2	2.4	1.6	3.3	.0	.6
40/44	.6	1.3	.8	.5	.2	.3	.5	.6	.0	.1
35/39	.3	.4	.2	.0	.0	.0	.1	.0	.0	.0
TOTAL	18.0	9.4	3.8	12.0	23.4	11.1	8.2	12.2	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	61	59	52	44	41	40	52.0	380
06009	63	60	57	51	45	41	38	51.2	252
12015	70	59	56	51	43	38	36	50.5	335
18021	69	64	59	53	44	41	39	52.4	420
TOT	70	61	58	52	44	40	36	51.6	1387

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	10.6	17.7	33.6	35.5	84	265		
06009	.0	3.1	12.0	20.4	36.6	27.7	83	191		
12015	.0	1.6	6.9	20.3	29.7	41.5	86	246		
18021	.0	2.7	11.9	20.1	35.2	30.0	83	293		
TOT	0	25	103	193	335	337	84	995		

DECEMBER

PERIOD: (PRIMARY) 1962-1972
(OVER-ALL) 1862-1972

TABLE 17

AREA 0037 EUREKA
40.7N 124.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)													
AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FUG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.3	.4	.3	.0	.1	11	.0	1.1
6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.1	6	.0	.6
5	.0	.0	.0	.0	.2	.1	.4	.1	.1	.0	9	.1	.8
4	.0	.0	.0	.0	.1	1.6	1.4	.1	.0	.0	32	.2	3.0
3	.0	.0	.0	.0	.3	1.9	.8	.1	.0	.0	31	.1	3.0
2	.0	.0	.0	.3	.1	3.2	1.6	.3	.0	.0	55	.4	5.1
1	.0	.0	.0	.2	1.0	5.9	1.0	.1	.0	.0	82	.6	7.6
0	.0	.0	.1	.1	3.3	8.6	.7	.0	.0	.0	128	.4	12.3
-1	.0	.0	.0	.4	4.8	5.3	.9	.1	.0	.0	115	.8	10.6
-2	.0	.0	.1	.6	7.7	3.6	.2	.1	.0	.0	123	.1	12.1
-3	.0	.0	.1	2.1	8.8	1.4	.1	.0	.0	.0	125	.3	12.1
-4	.0	.0	.1	1.5	6.9	1.3	.0	.0	.0	.0	98	.2	9.6
-5	.0	.0	.0	2.4	3.6	.4	.0	.0	.0	.0	64	.1	6.3
-6	.0	.0	.1	3.4	1.6	.4	.0	.0	.0	.0	55	.1	5.4
-7/-8	.0	.0	.6	1.9	1.1	.0	.0	.0	.0	.0	36	.0	3.6
-9/-10	.0	.0	1.0	.8	.2	.1	.0	.0	.0	.0	21	.0	2.1
-11/-13	.0	.2	.4	.0	.0	.1	.0	.0	.0	.0	7	.0	.7
-14/-16	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	1		26		398		80		2		1005		971
PCT	.1	.4	2.6	13.6	39.6	34.0	8.0	1.3	.2	.2	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.4	.2	.0	.0	.0	1.9	.5	2.4	.0	.0	.0	.0	2.9
1-2	.1	1.4	2.3	.0	.0	.0	3.8	.*	1.1	.8	.0	.0	.0	1.9
3-4	.0	.4	1.5	.6	.0	.0	2.5	.0	.2	1.1	.*	.0	.0	1.4
5-6	.0	.4	2.1	.4	.0	.0	2.9	.0	.0	.8	.0	.0	.0	.8
7	.0	.3	1.5	1.1	.0	.0	2.9	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.3	.0	.1	.0	.4	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.2	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.3	.0	.4	.0	.0	.0	.2	.*	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	7.8	2.5	.3	.2	15.3	.5	3.7	3.1	.6	.2	.0	8.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.6	.0	.0	.0	.0	.8	.5	1.3	.0	.0	.0	.0	1.8
1-2	.0	.4	.2	.0	.0	.0	.6	.0	2.2	1.3	.0	.0	.0	3.5
3-4	.0	.4	.6	.0	.0	.0	.9	.0	.6	1.7	.4	.0	.0	2.7
5-6	.0	.0	.4	.3	.0	.0	.6	.0	.0	.8	1.0	.1	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.8	.2	.0	1.9
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.*	.2	.2	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.2	.1	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.*	.0	.*
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.*	.2	.*	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	1.1	.4	.2	.0	3.2	.5	4.2	4.4	2.5	.9	.*	12.7

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0037 EUREKA
40.7N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.0	.0	.0	.0	2.1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.2	1.8	.6	.0	.0	.0	2.5	.0	.5	.2	.0	.0	.0	.8
3-4	.1	.8	2.9	1.8	.0	.0	5.7	.8	1.6	.8	.0	.0	.0	2.5
5-6	.2	.6	2.7	2.8	.6	.0	6.9	.0	.5	1.3	.4	.0	.0	2.2
7	.0	.0	1.2	1.7	.6	.0	3.5	.0	.0	.4	.6	.0	.0	1.0
8-9	.0	.2	.1	2.1	.6	.0	2.9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.3	.7	.8	.0	1.8	.0	.0	.5	.2	.0	.0	.7
12	.0	.0	.0	.0	.4	.3	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.3	.1	.1	.7	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.2	8.0	9.7	5.7	.4	27.8	.4	2.8	4.3	1.9	.1	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.4	1.6	.0	.0	.0	.0	1.9	
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	1.7	.7	.0	.0	.0	2.3	
3-4	.0	.6	1.3	.0	.0	.0	1.9	.0	1.1	.7	.0	.0	.0	1.8	
5-6	.0	.3	1.5	.3	.0	.0	2.1	.0	.7	1.9	.1	.0	.0	2.8	
7	.0	.2	.2	.2	.0	.0	.6	.0	.0	1.1	1.0	.0	.0	2.1	
8-9	.0	.1	.5	.1	.0	.0	.7	.0	.3	.2	.0	.0	.0	.6	
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.2	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.5	
13-16	.0	.0	.4	.2	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.2	4.9	.8	.2	.2	8.2	.4	5.4	4.9	1.3	.4	.2	12.5	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	10.8	.2	.0	.0	.0	16.3	
1-2	.3	9.7	6.6	.0	.0	.0	16.6	
3-4	.2	4.8	11.3	2.9	.0	.0	19.2	
5-6	.2	2.6	11.4	5.3	.6	.0	20.1	
7	.0	.6	5.3	5.3	.8	.0	12.1	
8-9	.0	.6	1.4	2.7	1.1	.0	6.0	
10-11	.0	.0	1.3	1.4	1.1	.2	4.0	
12	.0	.0	.2	.5	1.0	.3	1.9	
13-16	.0	.0	.6	1.0	.6	.2	2.4	
17-19	.0	.0	.0	.0	.5	.2	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.3	.3	.2	.8	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	29.1	38.3	19.5	6.1	1.0	100.0	621

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.5	6.5	3.7	3.5	1.8	1.0	.5	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	5
6-7	.0	.5	3.3	5.4	3.7	2.7	3.7	1.6	1.9	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	209	8
8-9	.0	.7	6.0	8.0	5.8	3.4	4.7	1.4	4.3	.7	.3	.0	.1	.1	.0	.0	.0	.0	.0	314	8
10-11	.0	.1	1.5	1.1	1.8	1.5	1.1	.8	.5	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	79	8
12-13	.0	.0	.2	.1	.2	.1	1.4	1.0	.5	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	37	12
>13	.0	.0	.0	.2	.1	.0	.7	.0	.2	.0	.1	.0	.6	.2	.0	.0	.0	.0	.0	19	18
INDET	1.1	.6	.5	.5	.2	.1	.3	.0	.5	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	37	6
TOTAL	14	47	159	169	136	85	115	46	70	19	6	10	7	3	0	0	0	0	0	886	8
PCT	1.6	5.3	17.9	19.1	15.3	9.6	13.0	5.2	7.9	2.1	.7	1.1	.8	.3	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974

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AREA 0037 EUREKA
40.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.5	.4	1.2	.0	.0	.0	.1	2.2	.7	.1	8.7	.3	9.6	.1	78.2
NE	1.9	.7	2.4	.0	.1	.0	.0	5.0	.5	.0	9.0	.5	13.3	.0	71.8
E	7.2	.9	2.7	.0	.0	.0	.3	10.5	2.5	.2	13.2	.4	7.2	.0	65.9
SE	10.2	1.0	5.2	.0	.0	.0	.1	15.8	2.3	.3	15.8	.6	5.5	.0	59.8
S	11.3	1.6	5.7	.0	.0	.0	.1	18.2	4.1	.4	12.5	.7	6.4	.2	57.8
SW	7.8	2.5	4.4	.0	.0	.0	.1	14.4	4.3	.5	9.4	.7	3.2	.0	67.5
W	2.9	3.2	3.2	.0	.0	.0	.2	9.4	4.2	.3	10.6	1.1	3.1	.0	71.5
NW	1.8	1.0	2.1	.0	.0	.0	.1	4.7	1.6	.1	8.7	.5	4.9	.1	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.4	1.8	.0	.0	.0	.0	4.1	.7	.1	25.4	.5	11.7	.0	57.6
TOT PCT	4.7	1.1	2.9	.0	.0	.0	.1	8.5	1.8	.2	10.2	.5	8.1	.1	70.7
TOT OBS:	16514														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.5	1.2	2.6	.0	.0	.0	.1	8.2	1.5	.1	9.8	.5	9.0	.1	70.9
0600	4.8	1.0	2.7	.0	*	.0	*	8.1	1.9	.2	9.7	.3	6.9	.1	72.8
1200	5.2	1.3	3.7	.0	*	.0	.1	10.2	1.8	.3	10.5	.4	6.8	.2	70.0
1800	4.2	.8	2.6	.0	.0	.0	.1	7.4	2.0	.2	11.5	.7	9.5	.1	68.7
TOT PCT TOT OBS: 16872	4.7	1.1	2.9	.0	*	.0	.1	8.5	1.8	.2	10.4	.5	8.1	.1	70.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	6.9	18.3	10.5	1.4	.0		37.9	17.7		38.9	37.2	39.4	40.6	37.7	35.4	38.1	34.5
NE	.4	1.9	1.9	.6	.0	.0		4.8	13.5		2.5	6.2	4.6	5.9	4.9	8.3	4.9	5.4
E	.4	.9	.4	.1	.0	.0		1.8	8.5		1.4	1.6	1.7	1.6	1.8	3.3	1.8	2.3
SE	.4	2.6	2.6	1.1	.3	.0		7.0	13.2		6.5	5.9	5.8	8.8	6.6	8.2	8.0	7.5
S	.7	4.1	5.6	3.1	.9	.1		14.4	14.7		15.1	14.1	14.9	12.3	13.3	13.4	15.7	15.0
SW	.6	2.4	2.0	.6	.1	.0		5.7	11.2		6.6	6.5	5.3	3.2	5.3	5.3	5.1	7.0
W	.7	2.3	1.8	.4	.1	.0		5.2	10.7		4.9	5.9	5.3	4.7	5.4	5.4	4.6	6.3
NW	.9	5.7	7.5	2.9	.4	.0		17.4	14.4		19.7	16.7	18.3	14.7	18.5	13.4	16.4	15.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0		4.4	5.9	4.7	8.3	6.6	7.0	5.5	6.0
TOT OBS							18900		14.9		3628	1367	3034	1103	3322	1411	3298	1737
TOT PCT	10.6	26.8	40.0	19.2	3.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	15
N	3.2	13.5	16.4	4.6	.2	37.9	17.7		38.4	39.7	36.9	36.9	
NE	1.2	2.2	1.3	.2	.0	4.8	13.5		3.5	5.0	6.0	5.0	
E	.9	.7	.2	.0	.0	1.8	8.5		1.4	1.7	2.3	2.0	
SE	1.5	3.0	1.6	.7	.1	7.0	13.2		6.3	6.6	7.1	7.9	
S	2.3	5.6	4.2	2.0	.3	14.4	14.7		14.8	14.3	13.3	15.4	
SW	1.5	2.8	1.1	.3	.0	5.7	11.2		6.6	4.7	5.4	5.8	
W	1.7	2.4	.9	.2	.0	5.2	10.7		5.2	5.1	5.4	5.1	
NW	3.1	7.8	5.2	1.2	.1	17.4	14.4		18.9	17.3	17.0	16.2	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	5.7					5.7	.0		4.8	5.6	6.7	5.7	
TOT OBS						18900		14.9	4991	4137	4733	5035	
TOT PCT	21.3	38.0	30.8	9.2	.8		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	4.8	5.2	26.2	39.7	20.4	3.6	.1	15.2	100.0	4995
09009	5.6	3.5	26.6	39.8	21.0	3.1	.5	15.4	100.0	4137
12013	6.7	5.5	27.1	39.7	17.5	3.3	.2	14.4	100.0	4733
18021	5.7	5.0	27.5	40.6	18.0	2.9	.2	14.5	100.0	5035
TOT								14.9		18900
PCT	5.7	4.9	26.8	40.0	19.2	3.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD COVER
N	18.9	4.4	6.6	10.7	3.6
NE	2.1	.5	1.0	1.2	3.9
E	.4	.2	.4	.7	5.5
SE	.9	.4	1.7	3.4	6.3
S	1.3	.9	3.2	8.4	6.5
SW	.6	.6	1.6	2.4	6.0
W	.8	.7	1.7	1.7	5.5
NW	6.3	2.2	3.7	4.7	4.2
VAR	.0	.0	.0	.0	.0
CALM	1.7	.4	.8	2.7	5.2
TOT OBS					11489
TOT PCT	33.0	10.4	20.7	35.9	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

CEILING (FT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999				
N	3.2	.2	.7	2.4	4.8	2.6	.8	.2	.1	.1	25.5	
NE	.3	.1	.1	.3	.5	.4	.1	.1	.1	.1	2.9	
E	.2	.1	.2	.2	.2	.2	.1	.1	.1	.1	.7	
SE	.8	.2	.2	.7	1.1	.8	.4	.1	.1	.1	1.9	
S	1.5	.2	.7	2.2	2.8	1.9	.7	.2	.1	.2	3.4	
SW	.4	.1	.3	.6	1.2	.6	.2	.1	.1	.1	1.7	
W	.3	.1	.2	.7	.9	.5	.1	.1	.1	.1	2.0	
NW	1.1	.1	.4	1.3	2.2	1.4	.4	.1	.1	.1	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	.1	.3	.7	.4	.2	.1	.1	.1	2.5	
TOT OBS											11489	
TOT PCT	9.1	.9	2.7	8.7	14.6	8.8	3.0	.7	.5	.6	50.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8
>3500	3.3	4.4	4.7	4.8	4.8	4.8	4.8	4.8
>2000	9.3	12.9	13.4	13.6	13.6	13.7	13.7	13.7
>1000	18.6	26.2	27.7	28.0	28.1	28.1	28.1	28.1
>600	23.0	33.6	36.0	36.4	36.6	36.7	36.8	36.8
>300	23.9	35.7	38.5	39.1	39.3	39.4	39.5	39.5
>150	24.2	36.2	39.3	39.9	40.2	40.3	40.4	40.4
>0	24.5	37.5	41.9	43.4	43.5	43.9	44.1	44.6

TOTAL NUMBER OF OBS: 11674

PCT FREQ NM <5/8: 50.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
23.1	7.0	8.0	6.5	4.9	4.0	5.9	7.6	26.7	12303

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1958-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	*	*	*	*	.1	*	*	.0	*	.3	
	NO PCP	1.5	.1	.1	.2	.4	.2	.2	.6	.0	.6	3.9	
	TOT %	1.5	.1	.1	.3	.5	.2	.2	.6	.0	.6	4.1	
1/2<1	PCP	.1	*	.0	*	.1	*	*	*	.0	*	.3	
	NO PCP	.7	.1	.1	.1	.3	.1	.1	.3	.0	.3	2.1	
	TOT %	.8	.1	.1	.2	.5	.1	.1	.3	.0	.3	2.4	
1<2	PCP	.1	*	*	.1	.3	.1	*	.1	.0	*	.7	
	NO PCP	.4	*	*	.1	.2	.1	*	.2	.0	.1	1.1	
	TOT %	.5	.1	*	.2	.4	.1	.1	.2	.0	.1	1.9	
2<5	PCP	.1	*	*	.3	1.0	.2	.1	.1	.0	.1	1.9	
	NO PCP	1.4	.2	.1	.3	.6	.2	.2	.5	.0	.2	3.5	
	TOT %	1.4	.2	.1	.6	1.6	.4	.2	.6	.0	.3	5.4	
5<10	PCP	.3	.1	.1	.6	1.4	.4	.2	.3	.0	.1	3.6	
	NO PCP	7.9	.9	.3	1.1	3.0	1.2	.9	3.1	.0	1.1	19.6	
	TOT %	8.2	1.0	.5	1.8	4.4	1.6	1.2	3.4	.0	1.2	23.2	
10+	PCP	.2	.1	.1	.2	.5	.2	.2	.2	.0	*	1.7	
	NO PCP	26.0	3.5	1.1	3.5	6.8	2.9	3.3	11.2	.0	2.9	61.3	
	TOT %	26.2	3.6	1.1	3.7	7.3	3.2	3.5	11.5	.0	2.9	63.0	
TOT OBS													16487
TOT PCT		38.6	5.2	1.9	6.8	14.7	5.6	5.2	16.6	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.1	*	.1	.1	.1	.1	.0	.6	1.2	
	4-10	.5	.1	*	.1	.2	.1	.1	.3	.0		1.9	
	11-21	.7	*	*	.1	.1	*	*	.2	.0		1.2	
	22+	.2	*	.0	*	*	*	*	.1	.0		.4	
	TOT %	1.5	.1	.1	.7	.5	.2	.2	.6	.0	.6	4.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.3	.5	
	4-10	.2	.1	*	.1	.2	*	.1	.2	.0		.8	
	11-21	.4	*	.0	.1	.2	*	*	.1	.0		.8	
	22+	.2	*	.0	*	.1	*	.0	*	.0		.4	
	TOT %	.8	.1	.1	.2	.4	.1	.1	.3	.0	.3	2.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.1	*	.1	.1	.1	*	.1	.0		.5	
	11-21	.3	*	*	.1	.1	.1	*	.1	.0		.7	
	22+	.1	*	.0	.1	.2	*	.0	.1	.0		.5	
	TOT %	.5	.1	*	.3	.4	.1	.1	.3	.0	.1	2.0	
2<5	0-3	*	*	*	*	.1	*	*	.1	.0	.4	.7	
	4-10	.3	.1	.1	.2	.2	.2	.1	.2	.0		1.3	
	11-21	.7	.1	*	.2	.5	.1	.1	.3	.0		2.1	
	22+	.4	*	*	.2	.8	.1	*	.1	.0		1.7	
	TOT %	1.5	.2	.1	.6	1.6	.5	.2	.6	.0	.4	5.6	
5<10	0-3	.2	.1	.1	.1	.2	.1	.1	.2	.0	1.2	2.2	
	4-10	1.3	.4	.2	.5	.9	.6	.5	1.0	.0		5.4	
	11-21	3.6	.4	.1	.6	1.6	.6	.4	1.5	.0		8.8	
	22+	3.0	.1	*	.6	1.6	.3	.2	.9	.0		6.7	
	TOT %	8.2	1.0	.4	1.8	4.3	1.6	1.1	3.6	.0	1.2	23.0	
10+	0-3	.4	.2	.2	.2	.4	.3	.4	.4	.0	3.0	5.6	
	4-10	4.5	1.4	.6	1.5	2.3	1.4	1.5	3.8	.0		16.9	
	11-21	12.9	1.4	.2	1.5	3.0	1.1	1.2	5.3	.0		26.8	
	22+	8.3	.3	.1	.5	1.5	.3	.3	2.0	.0		13.4	
	TOT %	26.1	3.5	1.1	3.8	7.2	3.1	3.4	11.6	.0	3.7	62.8	
TOT OBS													17837
TOT PCT		38.5	5.0	1.9	6.9	14.5	5.6	5.1	16.9	.0	5.7	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.5	1.0	2.9	8.4	14.2	8.6	3.8	.8	.5	.6	48.3	51.7	3209
06009	11.1	.7	2.0	6.8	11.3	6.6	2.1	.5	.6	.6	42.3	57.7	2600
12015	10.5	.9	2.7	7.8	13.9	7.9	2.3	.6	.3	.6	47.4	52.6	2670
18021	7.9	.9	3.0	10.0	16.6	10.8	3.3	.8	.7	.6	54.4	45.6	3436
TOT PCT	9.1	.9	2.7	8.4	14.2	8.7	2.9	.7	.5	.6	48.7	51.3	11915 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	3.7	2.5	2.0	5.7	23.5	62.6	4802
06009	4.3	2.0	1.7	4.6	21.7	65.7	4107
12015	5.1	2.2	2.3	5.5	24.5	60.5	4551
18021	4.1	2.8	2.1	6.8	22.6	61.6	4743
TOT PCT	4.3	2.4	2.0	5.7	23.1	62.5	18201 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ NH <5/8 AND 5+	TOTAL OBS
00003	7.6	12.1	23.4	26.8	49.7
06009	11.5	14.4	23.1	21.0	55.9
12015	10.7	14.8	23.2	24.1	50.7
18021	8.0	12.7	23.6	30.9	43.5
TOT PCT	9.3	13.4	24.5	26.2	49.3

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
70/74	.0	.0	.0	.1	.1	.1	.1	.0	.3	.3
65/69	.0	.0	.1	.1	.3	.6	.8	.3	2.1	2.1
60/64	.0	.0	.3	1.0	2.8	4.7	2.5	.0	11.4	11.4
55/59	.0	.0	.2	1.3	5.3	14.4	11.1	.0	32.5	32.5
50/54	.0	.0	.3	2.4	6.0	15.2	15.4	.0	39.4	39.4
45/49	.0	.0	.3	1.1	2.4	3.5	5.2	.0	12.6	12.6
40/44	.0	.0	.0	.3	.3	.4	.5	.0	1.5	1.5
35/39	.0	.0	.0	.0	.0	.0	.1	.0	.2	.2
TOTAL PCT	.0	.0	.2	1.3	6.5	17.6	39.1	35.2	13768	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.7	.1	.1	.1	.1	.1	.2	.5	.0	.1
4.6	.4	.2	.5	1.0	.7	.9	2.5	.0	.5
13.3	1.5	.5	2.4	5.2	1.4	1.1	3.2	.0	1.8
14.9	2.1	.6	2.9	6.8	2.2	1.9	5.9	.0	2.1
4.3	.9	.3	.9	1.4	.9	.8	2.2	.0	.9
.3	.2	.1	.1	.1	.1	.2	.3	.0	.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38.3	5.4	1.8	6.8	14.8	5.5	5.1	16.7	.0	5.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	66	62	55	50	46	39	55.4	3058
06009	74	61	59	53	48	46	36	53.4	4211
12015	70	61	58	53	48	45	36	52.9	4789
18021	82	69	62	53	49	46	37	55.1	3073
TOT	82	65	60	54	48	46	36	54.2	19131

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.0	8.4	21.1	38.9	29.7	84	3511
06009	.0	1.1	5.4	14.8	38.9	39.8	87	3289
12015	.1	1.1	4.4	14.0	38.5	41.9	87	3543
18021	.0	2.1	7.8	19.9	39.1	31.2	84	3712
TOT	.3	2.19	9.09	24.70	54.75	49.79	85	14055

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	TOT	N FOG	NO FOG
36	40	44	48	52	56	60	64	68	72	76	80				
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	56	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.5	.3	.1	.0	.0	148	.1	.9
9/10	.0	.0	.0	.0	.0	.1	.5	.6	.2	.0	.0	.0	217	.2	1.3
7/8	.0	.0	.0	.0	.0	.5	1.9	.9	.1	.0	.0	.0	527	.3	3.1
6	.0	.0	.0	.0	.1	1.4	1.2	.4	.1	.1	.0	.0	510	.4	3.0
5	.0	.0	.0	.0	.1	3.4	1.9	.6	.2	.0	.0	.0	964	.7	5.6
4	.0	.0	.0	.0	.5	3.9	1.7	.6	.1	.0	.0	.0	1037	.8	6.0
3	.0	.0	.0	.0	1.3	4.6	1.8	.7	.2	.0	.0	.0	1303	1.0	7.5
2	.0	.0	.0	.1	3.1	4.5	2.1	.7	.1	.0	.0	.0	1635	1.2	9.4
1	.0	.0	.0	.4	3.7	4.6	1.9	.9	.1	.0	.0	.0	1772	1.3	10.2
0	.0	.0	.0	.7	4.2	4.5	1.6	.9	.1	.0	.0	.0	1806	1.3	10.6
-1	.0	.0	.0	.9	3.3	3.1	1.3	.5	.0	.0	.0	.0	1382	1.0	8.2
-2	.0	.0	.0	1.3	3.3	1.9	1.0	.3	.0	.0	.0	.0	1167	.5	7.2
-3	.0	.0	.1	1.2	2.6	1.2	.7	.2	.0	.0	.0	.0	874	.5	5.4
-4	.0	.0	.1	1.1	1.8	.7	.4	.1	.0	.0	.0	.0	625	.3	3.9
-5	.0	.0	.1	.9	1.0	.5	.3	.1	.0	.0	.0	.0	437	.2	2.8
-6	.0	.0	.2	.7	.6	.2	.0	.0	.0	.0	.0	.0	248	.1	1.6
-7/-8	.0	.0	.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	265	.1	1.7
-9/-10	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	106	.0	.7
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	.0	.3
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
TOTAL													15151		
PCT	.0	.2	1.2	8.2	26.2	35.4	18.5	8.0	1.8	.4	.1	.0	100.0	10.0	90.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.2	.0	.0	.0	2.7	<1	.1	.9	.1	.0	.0	.0	1.2
1-2	.2	2.7	6.0	.0	.0	.0	8.9	1-2	.0	.0	.7	.0	.0	.0	1.3
3-4	.0	1.4	7.8	3.7	.0	.0	12.9	3-4	.0	.3	1.0	.3	.0	.0	1.5
5-6	.0	.4	4.1	2.8	.2	.0	7.4	5-6	.0	.1	.4	.2	.0	.0	.7
7	.0	.1	1.9	2.0	.3	.0	4.2	7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.7	1.1	.3	.0	2.1	8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.2	.7	.1	.0	1.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.4	.1	.0	.6	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.2	.0	.5	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.7	21.0	11.0	1.3	.0	40.6	TOT PCT	.2	2.0	2.4	.7	.1	.0	5.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6	<1	.2	1.0	.1	.0	.0	.0	1.2
1-2	.0	.2	.1	.0	.0	.0	.4	1-2	.0	.9	.8	.0	.0	.0	1.7
3-4	.0	.1	.2	.0	.0	.0	.3	3-4	.0	.3	.9	.4	.0	.0	1.6
5-6	.0	.0	.1	.0	.0	.0	.2	5-6	.0	.1	.3	.5	.1	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.2	.2	.2	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.5	.1	.0	.0	1.5	TOT PCT	.2	2.3	2.3	1.3	.5	.0	6.3

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.1	.0	.0	.0	1.6	.1	.6	.0	.0	.0	.0	.7
1-2	.1	1.3	1.4	.0	.0	.0	2.8	.1	.7	.3	.0	.0	.0	1.0
3-4	.0	.8	2.0	.9	.0	.0	3.8	.0	.4	.7	.1	.0	.0	1.3
5-6	.0	.2	1.1	1.4	.2	.0	2.9	.0	.1	.5	.2	.0	.0	.9
7	.0	.1	.5	.6	.4	.0	1.6	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.1	.5	.2	.0	.8	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.3	.1	.0	.5	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	5.3	3.9	1.2	.1	14.7	.2	1.8	1.9	.6	.1	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.3	.0	.0	.0	.0	.6	.3	1.3	.0	.0	.0	.0	1.7	
1-2	.0	.7	.3	.0	.0	.0	1.1	.1	2.0	1.4	.0	.0	.0	3.5	
3-4	.0	.4	.6	.0	.0	.0	1.1	.0	1.3	2.5	.3	.0	.0	4.3	
5-6	.0	.2	.6	.1	.0	.0	.6	.0	.3	1.7	.5	.0	.0	2.7	
7	.0	.1	.1	.1	.0	.0	.3	.0	.1	1.0	.7	.0	.0	1.9	
8-9	.0	.0	.1	.0	.0	.0	.2	.0	.1	.3	.4	.1	.0	.8	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.9	1.7	.3	.0	.0	4.1	.5	5.4	7.2	2.5	.3	.0	15.8	93.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	8.4	.5	.0	.0	.0	17.4	
1-2	.8	9.0	11.1	.0	.0	.0	20.9	
3-4	.1	5.0	15.7	5.9	.0	.0	26.7	
5-6	.1	1.5	8.6	5.7	.6	.0	16.4	
7	.0	.4	4.0	3.7	1.0	.0	9.0	
8-9	.0	.2	1.4	2.3	.6	.0	4.5	
10-11	.0	.0	.6	1.3	.4	.0	2.3	
12	.0	.0	.2	.6	.3	.0	1.2	
13-16	.0	.0	.1	.6	.4	.0	1.2	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	24.4	42.2	20.2	3.4	.1	100.0	8417

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	5.9	10.6	6.0	3.5	1.7	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4044	4
6-7	.0	3.5	9.0	9.9	5.8	3.2	2.0	1.0	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4789	6
8-9	.0	1.2	3.0	3.9	3.5	2.8	2.3	.9	1.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	2492	7
10-11	.0	.4	.8	.9	1.0	1.0	.7	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	806	8
12-13	.0	.0	.4	.3	.3	.2	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	297	9
>15	.0	.0	.0	.2	.2	.2	.2	.1	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	160	12
INDET	1.7	.4	.6	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	599	4
TOTAL	2.8	11.5	24.4	21.6	14.7	9.2	6.8	3.4	4.0	1.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	13187	8
PCT	2.8	11.5	24.4	21.6	14.7	9.2	6.8	3.4	4.0	1.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1858-1974

TABLE 20

AREA 0037 EUREKA
40.7N 124.8W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0
69/70	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.0	7	.0
67/68	.0	.0	.0	.0	.0	.1	.3	.6	1.0	.2	.1	.0	32	.2
65/66	.0	.0	.0	.0	.2	.5	.7	2.0	2.7	.4	.3	.1	95	.5
63/64	.0	.0	.0	.0	.2	.7	2.2	6.0	6.5	5.9	3.0	.7	277	1.6
61/62	.1	.1	.1	.2	.2	2.2	6.0	13.6	10.0	5.8	1.9	.5	570	3.3
59/60	.4	.3	.1	.2	.6	5.1	8.4	15.2	11.3	12.0	6.0	1.7	825	4.7
57/58	1.8	1.5	.9	1.4	3.6	12.7	10.7	9.4	11.6	15.6	15.4	6.5	1297	7.4
55/56	9.3	5.3	5.6	5.0	10.0	19.2	19.2	11.9	13.7	18.8	39.7	22.0	2388	13.6
53/54	29.3	28.9	18.4	14.3	19.5	14.5	15.1	12.0	12.8	17.6	25.8	40.5	3581	20.4
51/52	28.6	22.2	31.0	22.2	18.4	15.1	25.0	22.5	20.2	8.6	11.9	18.5	3583	20.4
49/50	23.7	25.1	24.0	45.4	40.3	25.1	14.4	7.9	9.4	17.6	3.8	7.3	3716	21.2
47/48	5.9	15.3	17.1	9.4	6.0	4.2	3.5	1.1	1.0	.3	.3	1.4	997	5.7
45/46	.7	1.2	2.4	1.5	1.1	.6	.4	.1	.2	.1	.0	.8	137	.8
43/44	.2	.2	.3	.2	.1	.1	.0	.0	.0	.0	.0	.2	19	.1
41/42	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1469	1461	1372	1613	1677	1493	1424	1431	1314	1430	1410	1211	17527	100.0
MEAN	51.9	51.8	50.8	50.8	51.5	53.4	54.3	56.1	56.0	55.2	55.1	53.6	53.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1018	1019	1018	1019	1019	1019	1020	1019	1019	1295
FEB	1018	1017	1019	1017	1018	1019	1018	1018	1018	1301
MAR	1019	1020	1020	1020	1019	1019	1020	1020	1019	1454
APR	1020	1021	1020	1020	1019	1019	1020	1021	1020	1319
MAY	1019	1018	1019	1019	1018	1018	1019	1019	1019	1653
JUN	1017	1017	1017	1016	1017	1016	1017	1017	1017	1412
JUL	1017	1015	1017	1015	1016	1015	1017	1016	1017	1453
AUG	1017	1016	1017	1015	1016	1016	1017	1017	1016	1486
SEP	1015	1016	1015	1013	1015	1015	1016	1016	1015	1276
OCT	1017	1016	1017	1014	1017	1017	1019	1018	1017	1363
NOV	1017	1017	1017	1016	1017	1017	1018	1018	1017	1420
DEC	1017	1017	1016	1018	1018	1017	1018	1018	1018	1181
ANN	1018	1017	1018	1017	1017	1017	1018	1018	1018	16813
OBS	3203	1041	3052	816	3056	1109	3301	1235		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	998	1004	1014	1020	1025	1030	1032	1036
FEB	992	996	1003	1013	1019	1024	1030	1034	1038
MAR	995	999	1006	1015	1021	1024	1029	1033	1034
APR	992	1000	1009	1016	1020	1024	1029	1031	1033
MAY	997	1008	1012	1016	1019	1022	1026	1029	1033
JUN	1000	1003	1010	1015	1017	1020	1023	1024	1028
JUL	1005	1008	1010	1014	1017	1019	1022	1025	1031
AUG	1005	1008	1010	1014	1017	1019	1022	1023	1029
SEP	998	1004	1008	1012	1015	1018	1022	1024	1027
OCT	995	1004	1008	1014	1018	1021	1025	1027	1032
NOV	990	998	1003	1013	1018	1022	1027	1030	1034
DEC	991	999	1003	1013	1019	1023	1029	1032	1038

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1873-1974

JANUARY

AREA 0038 CAPE BLANCO
42.8N 129.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.9	2.3	1.9	.0	.0	.0	1.9	7.9	4.0	.0	.9	.9	.0	.0	86.3
NE	4.8	2.2	3.2	.0	1.5	.0	.0	13.8	.0	.0	.0	.0	.0	.0	86.2
E	15.4	.0	7.3	.0	1.6	.0	.0	24.4	3.3	.0	.0	.0	.0	.0	72.4
SE	11.7	3.2	9.0	.0	.9	.0	.0	20.3	6.8	.0	2.3	.0	.9	.5	69.4
S	19.5	3.6	10.9	.0	.0	.0	.0	30.1	6.7	.3	6.3	.8	2.4	.3	53.0
SW	12.4	4.9	8.6	.0	.0	.0	.0	24.1	9.1	.2	6.6	.2	2.7	.0	57.1
W	9.6	6.2	12.0	.0	.0	.0	.0	26.5	8.6	.0	4.1	1.4	1.4	.0	58.1
NW	6.2	4.4	5.8	.0	.0	.0	.0	14.2	6.2	.0	1.5	.0	1.5	.0	76.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	85.7
TOT PCT	11.5	3.6	8.0	.0	.3	.0	.3	21.5	6.0	.1	3.7	.7	1.5	.1	66.4
TOT OBS:	749														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	11.0	2.9	8.6	.0	.0	.0	.5	21.0	3.8	.0	6.7	.5	1.4	.0	66.7
06009	11.0	2.6	9.1	.0	.0	.0	.0	22.1	4.5	.0	3.9	1.3	.6	.0	67.5
12015	11.7	6.8	7.8	.0	.5	.0	.0	24.4	6.8	.5	1.5	.5	2.4	.5	63.4
18021	11.3	3.6	6.7	.0	.5	.0	.5	19.5	8.2	.0	2.6	.5	1.5	.0	67.7
TOT PCT TOT OBS:	11.3 764	4.1	8.0	.0	.3	.0	.3	21.7	5.9	.1	3.7	.7	1.6	.1	66.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	4.1	6.7	2.4	.5	.1		14.8	15.0		15.4	19.8	13.0	24.2	12.6	16.3	12.5	12.8
NE	1.0	3.1	3.1	1.2	.1	.0		8.5	12.8		8.9	7.1	10.7	10.5	6.8	7.9	10.1	6.1
E	.6	1.6	1.0	.4	.1	.0		3.7	11.2		1.6	.0	4.8	2.4	4.1	3.4	6.7	4.7
SE	.1	3.2	2.6	1.2	.0	.1		7.8	15.8		7.4	7.5	5.6	8.1	9.3	12.1	5.4	8.9
S	.7	3.9	10.7	9.1	3.1	.6		28.2	21.1		31.3	28.7	36.0	20.2	26.3	17.7	26.2	25.8
SW	.5	4.1	5.9	4.6	.4	.2		15.7	17.4		16.0	18.3	11.6	7.3	15.4	18.0	19.5	16.7
W	.7	3.2	4.8	1.0	.3	.0		10.1	14.3		10.4	9.7	7.6	15.7	8.0	14.0	10.6	8.9
NW	.3	2.6	4.4	1.4	.5	.0		9.1	15.9		8.1	7.5	8.3	8.5	13.3	9.6	6.5	9.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		1.0	1.5	2.3	3.2	2.1	1.1	.6	6.7
TOT OBS	68	253	383	209	56	10	979		16.6		200	67	129	62	188	89	154	90
TOT PCT	4.9	25.8	34.1	21.3	5.7	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.2	5.4	5.0	1.1	.2			14.8	15.0	16.5	16.6	13.8	12.6
NE	2.2	4.1	1.5	.7	.1			8.5	12.8	8.4	10.6	7.1	6.6
E	1.5	1.6	.4	.3	.0			3.7	11.2	1.2	4.1	3.9	5.9
SE	1.8	3.1	1.7	1.0	.2			7.8	15.8	7.4	6.4	10.2	6.7
S	2.1	8.1	11.5	5.1	1.5			28.2	21.1	30.6	30.9	24.9	27.4
SW	1.5	6.0	6.1	1.8	.3			15.7	17.4	16.6	10.2	16.2	18.4
W	1.5	4.8	3.0	.8	.0			10.1	14.3	10.2	10.2	9.9	9.9
NW	1.4	4.0	2.9	.6	.3			9.1	15.9	8.0	8.4	12.1	7.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.1	2.6	1.8	2.9
TOT OBS	168	362	315	110	24	979		16.6		267	191	277	244
TOT PCT	17.2	37.0	32.2	11.2	2.5			100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
HOUR	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	FREQ	DBS
0000	1.1	2.6	26.2	41.6	21.0	7.1	.4	17.0	100.0	267
0600	2.6	4.7	26.2	38.2	19.9	6.8	1.6	16.7	100.0	191
1200	1.8	6.9	24.5	40.8	22.0	2.5	1.4	15.8	100.0	277
1800	2.9	5.3	26.6	35.2	22.1	7.0	.8	16.7	100.0	244
TOT	20	48	253	383	209	56	10	16.6		979
PCT	2.0	4.9	25.8	39.1	21.3	5.7	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBS	TOTAL DBS	MEAN CLOUD COVER
N	6.8	1.2	4.6	1.7		3.5
NE	4.7	1.2	1.9	2.3		3.6
E	1.0	.4	.3	2.9		5.9
SE	.9	.5	1.5	3.4		6.3
S	.8	1.4	5.3	21.2		7.2
SW	1.6	1.6	5.3	7.4		6.1
W	.9	1.0	4.6	2.9		5.9
NW	1.9	1.7	2.5	3.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.0		3.6
TOT DBS	86	40	119	199	444	5.7
TOT PCT	19.4	9.0	26.8	44.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.2	.0	.7	1.1	.9	1.9	.0	.0	.0	.0	5.3	
NE	.0	.0	.5	.8	1.4	.6	.0	.0	.0	.0	6.8	
E	.2	.0	.6	.3	.7	1.3	.0	.0	.0	.0	1.6	
SE	.2	.1	.2	1.1	.5	.8	.7	.0	.1	.1	2.6	
S	.9	1.1	2.4	6.5	5.6	4.6	.5	.0	.6	.6	6.0	
SW	1.2	.5	1.5	2.8	3.2	.8	.1	.0	.0	.5	5.3	
W	.2	.2	1.1	2.0	1.5	.9	1.0	.0	.0	.0	2.5	
NW	.2	.1	.1	.9	2.5	1.0	.0	.0	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT DBS	14	8	31	69	72	33	10	0	3	5	179	444
TOT PCT	3.2	1.8	7.0	15.5	16.2	11.9	2.3	.0	.7	1.1	40.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >8000	.9	1.3	1.5	1.5	1.5	1.8	1.8	1.8
>OR >5000	.9	1.3	1.5	1.5	1.5	1.8	1.8	1.8
>OR >3500	3.1	3.8	4.0	4.0	4.0	4.2	4.2	4.2
>OR >2000	12.4	15.3	15.7	15.7	15.7	15.9	15.9	15.9
>OR >1000	22.3	29.6	31.4	31.9	31.9	32.1	32.1	32.1
>OR >600	30.8	44.0	46.9	47.8	47.8	48.0	48.0	48.0
>OR >300	33.8	48.7	52.9	54.2	54.4	54.9	54.9	54.9
>OR >150	34.3	49.3	54.4	56.0	56.2	56.6	56.6	56.6
>OR >0	34.3	49.8	56.2	58.0	58.4	59.3	59.3	59.3
TOTAL	199	225	254	262	264	268	269	269

TOTAL NUMBER OF DBS: 452

PCT FREQ NM <5/8: 40.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBS	TOTAL DBS
12.2	6.3	7.1	7.9	4.5	5.7	8.1	10.8	34.8	2.6	308

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.3	.2	.3	.0	.0	.0	.9	
	NO PCP	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.8	
	TOT %	.1	.0	.0	.1	.7	.3	.5	.0	.0	.0	1.7	
1/2<1	PCP	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.3	.4	.3	.0	.0	.0	.9	
	TOT %	.0	.0	.0	.2	.5	.6	.3	.0	.0	.0	1.6	
1<2	PCP	.0	.1	.1	.1	1.2	.6	.1	.1	.0	.0	2.4	
	NO PCP	.0	.0	.0	.0	.6	.1	.1	.0	.0	.0	.8	
	TOT %	.0	.1	.1	.1	1.8	.7	.3	.1	.0	.0	3.2	
2<3	PCP	.3	.1	.1	.3	2.8	.9	.5	.0	.0	.0	5.1	
	NO PCP	.1	.0	.0	.3	1.8	.6	.2	.1	.0	.0	3.2	
	TOT %	.4	.1	.1	.6	4.6	1.5	.7	.1	.0	.0	8.3	
3<10	PCP	.7	.7	.5	.3	3.8	1.4	1.2	1.0	.0	.0	9.6	
	NO PCP	2.4	1.0	.5	1.0	6.2	4.1	1.5	1.5	.0	.0	18.3	
	TOT %	3.1	1.7	1.0	1.3	10.0	5.5	2.7	2.5	.0	.0	27.9	
10+	PCP	.3	.3	.3	.4	.8	.2	.5	.3	.0	.0	3.1	
	NO PCP	10.9	6.7	2.6	4.6	11.7	6.2	4.9	6.2	.0	.8	54.2	
	TOT %	10.6	7.0	2.9	5.0	12.5	6.4	5.4	6.5	.0	.8	57.3	
TOT OBS													749
TOT PCT		14.5	9.0	4.1	7.4	30.1	15.1	9.8	9.2	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.2	.3	.0	.0	.2	.9	
	4-10	.1	.0	.0	.0	.1	.0	.0	.1	.0		.2	
	11-21	.1	.0	.0	.0	.1	.1	.1	.0	.0		.4	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.0	.1	.6	.3	.4	.1	.0	.2	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.1	.2	.0	.0		.4	
	11-21	.0	.0	.0	.1	.1	.3	.0	.0	.0		.4	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.3	
	TOT %	.0	.0	.0	.1	.4	.5	.2	.0	.0	.0	1.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.1	.0	.1	.0	.0		.3	
	11-21	.0	.0	.0	.1	.8	.2	.1	.1	.0		1.2	
	22+	.0	.0	.1	.1	.9	.6	.0	.0	.0		1.6	
	TOT %	.0	.1	.1	.2	1.7	.7	.2	.1	.0	.0	3.1	
2<3	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.3	
	4-10	.1	.1	.2	.2	.1	.3	.1	.1	.0		1.1	
	11-21	.2	.0	.0	.3	1.6	.2	.3	.2	.0		2.8	
	22+	.0	.0	.0	.3	2.9	1.0	.3	.0	.0		4.5	
	TOT %	.3	.1	.2	.7	4.7	1.5	.7	.4	.0	.1	8.7	
3<10	0-3	.7	.4	.4	.0	.4	.1	.4	.2	.0	.0	2.7	
	4-10	.4	.4	.3	.4	1.5	1.4	.9	.6	.0		6.1	
	11-21	.9	.3	.2	.5	3.1	1.7	1.0	.7	.0		8.6	
	22+	.7	.1	.2	.6	4.3	1.8	.3	.7	.0		8.9	
	TOT %	2.7	1.5	1.1	1.4	9.3	5.0	2.7	2.2	.0	.0	26.2	
10+	0-3	.2	.6	.3	.0	.0	.2	.0	.0	.0	1.3	2.7	
	4-10	3.6	2.4	1.2	2.6	2.0	2.1	2.0	2.0	.0		17.9	
	11-21	5.5	2.6	.9	1.5	5.4	2.7	3.2	2.9	.0		24.8	
	22+	2.2	1.4	.2	.9	4.6	2.1	.6	1.4	.0		13.3	
	TOT %	11.5	7.0	2.6	5.0	12.1	7.1	5.8	6.3	.0	1.3	58.7	
TOT OBS													892
TOT PCT		14.7	8.7	4.0	7.6	29.0	15.1	10.1	9.0	.0	1.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.9	.0	7.3	16.8	16.1	11.7	2.9	.0	.7	.7	59.1	40.9	137
06009	5.8	2.9	5.8	14.6	13.6	11.7	1.9	.0	1.0	1.0	58.3	41.7	103
12015	.0	3.0	5.1	16.2	17.2	12.1	1.0	.0	1.0	1.0	56.6	43.4	99
18021	3.2	1.6	8.1	14.5	16.1	10.5	3.2	.0	.0	1.6	58.9	41.1	124
TOT	14	8	31	72	73	53	11	0	3	5	270	193	463
PCT	3.0	1.7	6.7	15.6	15.8	11.4	2.4	.0	.6	1.1	58.3	41.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	1.6	5.2	10.0	25.6	55.2	250
06009	2.2	1.1	3.8	9.3	27.9	55.7	183
12015	1.1	.8	1.5	5.7	29.1	61.7	261
18021	1.4	1.9	2.3	9.0	23.0	61.5	213
TOT	16	12	29	78	240	532	907
PCT	1.8	1.3	3.2	8.6	26.5	58.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.9	10.9	32.1	28.5	39.4	137
06009	5.9	14.9	32.7	27.7	39.6	101
12015	.0	8.6	26.9	33.3	39.8	93
18021	2.5	12.4	30.6	29.8	39.7	121
TOT	13	53	139	134	179	452
PCT	2.9	11.7	30.8	29.6	39.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
60/64	.0	.0	.2	.0	.0	.0	.0	.2	2	.3
55/59	.0	.2	.0	.2	.3	1.6	2.1	3.1	43	7.5
50/54	.0	.0	.0	1.4	3.0	7.3	15.8	18.2	263	45.7
45/49	.0	.0	.7	2.3	2.6	7.5	10.1	8.9	184	31.9
40/44	.0	.0	.2	1.6	3.0	2.1	3.0	2.8	72	12.5
35/39	.0	.0	.0	.2	.2	.2	.5	.5	9	1.6
30/34	.0	.0	.0	.0	.0	.0	.2	.2	2	.3
TOTAL	0	1	6	32	53	107	182	195	276	100.0
PCT	.0	.2	1.0	5.6	9.2	18.6	31.6	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0
55/59	.2	.0	.1	1.0	4.6	1.1	.0	.3	.0	.2
50/54	3.6	3.5	.8	4.9	20.3	6.6	3.0	2.7	.0	.2
45/49	5.2	2.1	1.8	2.0	6.3	4.9	5.1	4.5	.0	.2
40/44	3.1	2.2	.8	.6	1.6	1.0	.8	1.9	.0	.3
35/39	.3	.6	.0	.0	.0	.1	.6	.8	.0	.2
30/34	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.5	8.6	3.6	8.5	32.9	13.9	9.3	9.6	.0	1.0

TABLE 15 **

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	58	55	50	41	34	32	49.6	273
06009	66	57	55	49	42	37	36	48.7	190
12015	63	57	54	49	40	34	30	48.0	280
18021	60	58	56	50	41	39	35	49.3	149
TOT	66	58	55	49	41	36	30	48.9	992

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.7	10.1	15.7	34.0	29.6	81	159
06009	.0	5.1	8.5	21.4	27.4	37.6	83	117
12015	.0	3.2	10.1	15.2	38.0	33.5	84	138
18021	.0	8.6	7.9	23.0	26.3	34.2	82	132
TOT	0	41	54	109	186	196	82	586

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.1	.6	.0	.0	.0	5	.0	.7
6	.0	.0	.0	.0	.0	.3	.3	.0	.0	4	.0	.6
5	.0	.0	.0	.0	.0	.9	.9	.0	.0	12	.3	1.5
4	.0	.0	.0	.0	.0	2.8	.1	.0	.0	20	.1	2.8
3	.0	.0	.0	.0	1.0	3.9	.1	.0	.0	35	.3	4.8
2	.0	.0	.1	.4	2.5	3.8	.1	.0	.0	48	.3	6.7
1	.0	.0	.0	.6	4.2	3.4	.1	.0	.0	57	.7	7.6
0	.0	.0	.0	1.0	8.8	2.5	.0	.0	.0	84	1.2	11.1
-1	.0	.0	.0	2.3	6.4	1.5	.0	.0	.0	70	.6	9.6
-2	.0	.0	.1	4.7	7.0	.4	.0	.0	.0	84	.1	12.1
-3	.0	.0	.6	4.7	3.8	.1	.0	.0	.0	63	.1	9.1
-4	.0	.3	1.0	4.2	1.2	.0	.0	.0	.0	46	.1	6.6
-5	.0	.1	1.0	2.9	.9	.0	.0	.0	.0	34	.0	5.0
-6	.0	.0	3.2	2.2	.7	.0	.0	.0	.0	42	.0	6.1
-7/-8	.0	.3	3.4	1.2	.6	.1	.0	.0	.0	38	.0	5.3
-9/-10	.0	1.2	1.6	.6	.4	.0	.0	.0	.0	26	.0	3.8
-11/-13	.1	1.2	.1	.1	.0	.0	.0	.0	.0	11	.0	1.6
-14/-16	.4	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	21	77	171	258	139	12	1	1	685	2.7	658
PCT	.7	3.1	11.2	25.0	37.7	20.3	1.8	.1	.1	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGF	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.4	.0	.0	1.4	.0	.0	1.6	.7	1.0	.0	.0	2.3
3-4	.0	.7	1.4	.0	.0	.0	2.2	.0	.0	.8	.2	.0	.0	1.0
5-6	.0	.0	1.7	.9	.0	.0	2.6	.0	.0	.8	.5	.0	.0	1.3
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	5.4	1.3	.0	.0	8.5	.0	1.6	2.6	1.0	.0	.0	5.2

MGF	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.4	.4	.0	.0	.0	1.8	.0	3.0	.4	.0	.0	.0	3.4
3-4	.0	.0	.0	.9	.0	.0	.9	.0	.0	.9	.1	.0	.0	1.0
5-6	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.7	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.1	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.4	1.2	.0	.0	3.0	.0	3.7	2.4	1.8	.7	.0	8.6

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0038 CAPE BLANCO
42.8N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	4.0	.0	.0	.0	5.0	.0	2.9	.6	.0	.0	.0	3.5
3-4	.0	.7	3.7	.7	.0	.0	5.1	.0	1.2	1.7	.0	.0	.0	2.9
5-6	.0	1.3	4.0	2.2	.0	.0	7.6	.0	.9	1.7	.9	.0	.0	3.6
7	.0	.3	1.4	2.6	.6	.0	4.9	.0	.1	1.3	.9	.1	.0	2.4
8-9	.0	.0	.4	2.8	.6	.0	3.8	.0	.0	.1	1.2	.1	.0	1.4
10-11	.0	.0	.7	.7	1.4	.0	2.8	.0	.0	.5	.7	.0	.0	1.2
12	.0	.0	.0	.3	.0	.4	.7	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.4	.7	.0	.4	1.5	.0	.0	.0	.1	.0	.0	.0
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.2	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	14.6	10.2	3.7	1.7	33.3	.0	5.1	5.8	3.9	.2	.2	15.3

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
1-2	.4	2.2	.3	.0	.0	.0	2.8	.0	1.2	.4	.0	.0	.0	1.6	
3-4	.0	.9	3.1	.0	.0	.0	4.0	.0	2.1	2.5	.0	.0	.0	4.6	
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.4	.8	.5	.4	.0	2.1	
7	.0	.0	.6	.7	.0	.0	1.2	.0	.7	.2	.4	.4	.0	1.7	
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.5	.4	.0	.0	.8	
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.4	.4	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.1	7.7	.7	.0	.0	11.8	.4	4.4	4.5	1.6	1.1	.0	12.0	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.0	.7	.0	.0	.0	.0	3.7	
1-2	1.1	14.4	7.0	.0	.0	.0	22.5	
3-4	.0	5.5	14.0	1.8	.0	.0	21.4	
5-6	.0	2.6	11.8	5.9	.4	.0	20.7	
7	.0	1.1	4.8	5.2	1.1	.0	12.2	
8-9	.0	.0	2.6	4.8	.7	.0	8.1	
10-11	.0	.0	2.2	1.8	1.8	.0	5.9	
12	.0	.0	.0	.7	.0	.4	1.1	
13-16	.0	.0	.4	1.1	.0	.4	1.8	
17-19	.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	1.1	1.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	24.4	42.8	21.4	5.5	1.8	100.0	271

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	.2	3.4	5.8	4.1	3.4	2.4	.9	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.99	5
6-7	.0	.4	3.0	3.4	7.1	4.5	1.9	1.9	1.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	122	7
8-9	.0	.4	.6	3.2	5.4	3.9	3.4	1.9	1.3	.6	.4	.0	.2	.0	.0	.0	.0	.0	.0	100	9
10-11	.0	.4	.9	.2	1.9	3.7	1.9	2.2	1.9	.0	.4	.2	.4	.0	.0	.0	.0	.0	.0	86	10
12-13	.0	.0	.6	.4	1.3	.0	.4	.9	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	27	10
>13	.0	.0	.0	.4	.2	.2	.9	.4	.4	.0	.2	.2	.6	.0	.0	.0	.0	.0	.0	17	14
INDET	.6	.6	1.1	1.1	1.1	.6	1.3	.4	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	33	7
TOTAL	4	25	36	69	95	70	50	36	35	7	8	3	8	0	0	0	0	0	0	464	8
PCT	.9	5.4	12.1	14.9	20.5	15.1	10.8	7.8	7.5	1.5	1.7	.6	1.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1873-1974

FEBRUARY

AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.4	1.8	2.3	.0	.0	.0	.0	5.2	2.9	.0	2.9	.0	1.3	.0	87.7
NE	4.4	1.8	4.4	.0	.0	.0	.0	7.9	3.5	.0	3.9	.0	1.8	.0	82.9
E	3.7	.0	10.2	.0	.0	.0	.0	13.9	3.7	.0	3.7	.0	2.8	.0	73.9
SE	7.2	.0	9.6	.0	.0	.0	.0	16.8	2.0	.0	2.8	1.6	.8	.0	76.0
S	15.2	2.7	10.7	.0	.0	.0	.3	28.9	5.1	.0	6.4	.7	.8	.0	58.1
SW	8.3	7.3	13.2	.0	.0	.0	.3	28.1	8.3	.0	1.6	.5	1.0	.0	60.5
W	6.6	5.4	8.4	.0	.0	.0	1.2	20.4	5.7	1.2	1.2	1.2	1.2	.0	69.1
NW	1.8	.6	3.7	.0	.0	.0	.0	6.1	5.8	.0	2.7	1.2	.0	.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.6	6.3	6.3	.0	71.9
TOT PCN	7.7	2.7	7.3	.0	.0	.0	.2	17.3	4.6	.1	4.1	.9	1.2	.0	71.8
TOT OBS:	823														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	9.5	2.3	8.1	.0	.0	.0	.0	17.2	3.6	.0	2.7	.9	1.4	.0	74.2
06009	7.2	1.7	7.2	.0	.0	.0	.6	16.0	3.9	.0	3.3	1.1	1.7	.0	74.0
12015	6.9	4.3	9.6	.0	.0	.0	.0	20.7	4.8	.5	4.3	.5	1.6	.0	67.6
18021	7.0	2.5	5.3	.0	.0	.0	.4	15.2	6.6	.0	6.1	.8	.4	.0	70.9
TOT PCT TOT OBS:	7.7 834	2.6	7.4	.0	.0	.0	.2	17.1	4.8	.1	4.2	.8	1.2	.0	71.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	7.2	9.1	2.7	.1	.0		19.9	14.0		17.1	27.7	20.9	29.2	20.3	12.5	19.0	16.9
NE	.3	2.7	3.4	.5	.0	.0		7.0	12.3		6.1	4.8	5.4	6.5	8.2	12.0	6.9	9.5
E	.3	2.2	1.3	.1	.0	.0		3.9	9.6		2.1	3.4	2.0	4.6	4.7	6.5	5.2	6.1
SE	.5	4.2	2.5	.8	.2	.0		8.2	12.2		5.1	8.2	7.9	7.9	7.9	17.4	8.6	12.2
S	.7	5.9	9.7	6.0	3.0	.3		25.6	19.4		28.3	17.1	24.1	11.6	26.8	17.9	31.5	24.7
SW	.5	3.2	5.1	1.9	.6	.0		11.3	16.0		13.0	12.3	13.3	9.3	9.6	4.9	9.8	15.2
W	.2	3.4	5.0	1.3	.1	.1		10.0	14.3		13.2	4.1	13.5	6.5	7.4	18.5	7.6	8.8
NW	1.0	3.5	4.3	.8	.2	.0		9.7	12.8		10.7	16.8	8.2	15.3	8.0	8.2	9.4	5.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0		4.5	5.5	4.7	9.3	7.1	2.2	1.9	1.4
TOT OBS	91	338	422	148	43	4	1046		14.5		222	73	171	54	196	46	210	74
TOT PCT	8.7	32.3	40.3	14.1	4.1	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.6	9.0	6.3	.9	.0			19.9	14.0	19.7	22.9	18.8	18.5
NE	1.3	4.1	1.6	.0	.0			7.0	12.3	5.8	5.7	8.9	7.6
E	1.3	2.2	.4	.0	.0			3.9	9.6	2.5	2.7	5.1	5.5
SE	2.0	4.3	1.3	.4	.1			8.2	12.2	5.8	7.9	9.7	9.5
S	2.7	8.7	9.0	4.1	1.2			25.6	19.4	25.5	21.1	25.1	29.8
SW	1.3	5.1	3.5	1.4	.0			11.3	16.0	12.8	12.3	8.7	11.2
W	1.0	6.0	2.4	.5	.1			10.0	14.3	10.9	11.8	9.5	7.9
NW	2.2	4.4	2.5	.5	.0			9.7	12.8	12.2	9.9	8.1	8.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	4.7	5.8	6.2	1.8
TOT OBS	207	459	282	83	15	1046			14.5	295	225	242	284
TOT PCT	19.8	43.9	27.0	7.9	1.4			100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.7	5.1	28.1	40.0	16.9	4.4	.7	15.2	100.0	295
06009	5.8	4.0	31.6	40.9	13.3	4.0	.4	14.3	100.0	225
12115	6.2	3.3	35.5	38.4	12.8	3.3	.4	13.8	100.0	242
18221	1.8	4.2	34.5	41.9	13.0	4.6	.0	14.3	100.0	284
TOT	4.7	4.4	33.8	42.2	14.8	4.3	.4	14.5		1046
PCT	4.5	4.2	32.3	40.3	14.1	4.1	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.7	1.9	5.6	2.4		3.7
NE	2.3	1.1	1.5	1.5		4.1
E	.7	.3	.5	1.6		3.6
SE	1.1	.5	1.8	3.5		6.0
S	1.6	2.0	5.9	19.1		6.9
SW	1.3	.7	3.7	6.2		6.4
W	.8	1.2	4.2	4.7		6.3
NW	1.3	2.0	3.5	2.4		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.2	.3	2.4		3.0
TOT OBS	108	65	160	260	593	5.7
TOT PCT	18.2	11.0	27.0	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	OBS
N	.3	.0	.2	.5	2.4	1.6	.3	.0	.2	.3	12.0	
NE	.2	.0	.0	.5	.9	.5	.1	.0	.0	.2	3.9	
E	.0	.0	.2	.5	1.1	.2	.0	.0	.0	.0	1.3	
SE	.0	.3	.2	1.6	1.4	.7	.0	.0	.0	.0	2.7	
S	1.4	.7	2.7	5.2	6.3	3.5	1.0	.5	.5	.0	7.0	
SW	.5	.4	.4	1.8	3.3	1.3	.5	.4	.2	.3	3.5	
W	.2	.1	.5	.7	3.2	2.8	.3	.2	.2	.0	2.9	
NW	.0	.0	.0	1.1	1.6	1.5	.2	.0	.2	.2	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.2	.2	1.0	.2	.0	.0	.0	2.7	
TOT OBS	21	7	24	72	121	78	15	4	8	5	238	593
TOT PCT	3.5	1.2	4.0	12.1	20.4	13.2	2.5	.7	1.3	.8	40.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	1.5	1.8	2.2	2.2	2.2	2.2	2.2	2.2
= OR >5000	2.2	2.5	2.8	2.8	2.8	2.8	2.8	2.8
= OR >3500	3.8	5.0	5.5	5.5	5.5	5.5	5.5	5.5
= OR >2000	12.7	17.7	18.4	18.6	18.6	18.6	18.6	18.6
= OR >1000	25.1	35.8	37.1	38.8	38.8	38.8	39.0	39.0
= OR >600	31.8	46.0	48.3	50.8	50.8	50.8	51.0	51.0
= OR >300	32.6	48.2	51.7	54.7	54.8	55.0	55.2	55.2
= OR >150	32.8	48.7	52.7	55.7	55.9	56.0	56.4	56.4
= OR >0	33.3	49.7	54.0	57.9	58.5	59.5	60.0	60.0
TOTAL	199	297	323	346	350	356	359	359

TOTAL NUMBER OF OBS: 598

PCT FREQ NM <5/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
13.7	4.2	8.3	6.9	5.6	5.4	9.9	9.6	34.0	2.5	648

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.0	.0	.1	.1	.1	.0	.0	.0	.5	1.1	
	TOT %	.2	.0	.0	.1	.2	.1	.0	.0	.0	.5	1.2	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	.1	.3	.0	.0	.2	.0	.1	1.0	
	TOT %	.1	.1	.1	.1	.4	.0	.0	.2	.0	.1	1.2	
1<2	PCP	.0	.0	.0	.1	1.3	.6	.2	.0	.0	.0	2.3	
	NO PCP	.1	.1	.0	.1	.8	.0	.0	.0	.0	.0	1.2	
	TOT %	.1	.1	.0	.2	2.2	.7	.2	.0	.0	.0	3.5	
2<5	PCP	.2	.0	.0	.2	1.7	.7	.6	.0	.0	.0	3.4	
	NO PCP	.3	.1	.1	.2	1.1	.1	.4	.2	.0	.0	2.4	
	TOT %	.6	.1	.1	.3	2.8	.8	1.0	.2	.0	.0	5.8	
5<10	PCP	.3	.4	.2	.7	2.9	1.3	.8	.0	.0	.0	6.7	
	NO PCP	2.7	.7	.4	1.1	5.3	2.3	1.5	1.7	.0	1.7	17.5	
	TOT %	3.0	1.2	.6	1.8	8.2	3.6	2.3	1.7	.0	1.7	24.2	
10+	PCP	.4	.1	.2	.3	1.9	.6	.6	.5	.0	.0	4.7	
	NO PCP	14.2	5.3	2.2	4.7	12.0	5.9	6.2	7.3	.0	1.6	59.3	
	TOT %	14.7	5.4	2.4	5.0	13.9	6.5	6.7	7.9	.0	1.6	64.1	
TOT OBS													824
TOT PCT		18.7	6.9	3.3	7.6	27.7	11.7	10.2	10.1	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.4	.6	
	4-10	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.0	.1	.2	.2	.0	.0	.0	.4	1.2	
1/2<1	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.3	
	11-21	.1	.0	.1	.0	.0	.0	.0	.2	.0	.0	.4	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.4	.0	.1	.2	.0	.1	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.2	.2	.0	.2	.0	.0	.0	.7	
	11-21	.0	.1	.0	.0	.8	.7	.1	.0	.0	.0	1.7	
	22+	.0	.0	.0	.2	1.1	.1	.0	.0	.0	.0	1.3	
	TOT %	.1	.1	.0	.4	2.1	.7	.3	.0	.0	.0	3.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	4-10	.2	.0	.1	.1	.3	.1	.1	.1	.0	.0	1.2	
	11-21	.5	.1	.0	.1	.4	.4	.0	.1	.0	.0	2.2	
	22+	.1	.0	.0	.0	.0	.2	.2	.0	.0	.0	2.2	
	TOT %	.8	.1	.1	.3	2.6	.7	1.0	.2	.0	.0	5.8	
5<10	0-3	.1	.0	.0	.0	.0	.0	.1	.1	.0	1.7	1.9	
	4-10	.8	.2	.1	.8	2.0	.9	.0	.6	.0	.0	5.9	
	11-21	1.4	.7	.3	.7	3.4	1.1	1.1	.7	.0	.0	9.5	
	22+	.6	.1	.1	.3	2.7	1.1	.5	.1	.0	.0	5.4	
	TOT %	2.8	1.0	.5	1.8	8.0	3.2	2.1	1.5	.0	1.7	22.6	
10+	0-3	.7	.3	.2	.4	.3	.2	.1	.9	.0	2.1	5.1	
	4-10	5.3	2.3	1.9	3.1	3.4	2.1	2.5	2.9	.0	.0	23.4	
	11-21	7.0	2.3	.5	1.6	3.4	2.9	3.4	3.5	.0	.0	26.6	
	22+	2.4	.4	.0	.4	4.1	1.4	.9	.9	.0	.0	10.5	
	TOT %	15.4	5.3	2.6	5.4	13.2	6.6	6.8	8.2	.0	2.1	65.6	
TOT OBS													950
TOT PCT		19.4	6.6	3.4	8.1	26.4	11.4	10.3	10.1	.0	4.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.0	1.2	3.6	12.6	18.0	15.6	3.6	.6	1.8	1.2	61.1	38.9	167
06009	1.5	.0	2.9	18.4	17.6	14.0	2.2	.0	.7	.0	57.4	42.6	136
12015	5.6	1.6	4.8	7.3	20.2	9.7	.8	1.6	2.4	.0	54.0	46.0	124
18021	4.4	1.6	4.9	9.3	23.5	11.5	3.3	.5	.5	1.6	61.2	38.8	183
TOT	22	7	25	72	122	78	16	4	8	5	359	251	610
PCT	3.6	1.1	4.1	11.8	20.0	12.8	2.6	.7	1.3	.8	58.9	41.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.4	1.1	3.3	8.9	22.3	63.9	269
06009	1.4	.0	2.9	1.9	24.5	69.2	208
12015	1.3	1.8	4.9	7.1	21.3	63.6	225
18021	1.9	1.5	3.9	4.6	22.8	65.3	259
TOT	12	11	36	56	218	628	961
PCT	1.2	1.1	3.7	5.8	22.7	65.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.1	8.0	22.7	39.9	37.4	163
06009	1.5	4.6	23.2	34.4	40.5	131
12015	5.7	13.8	28.5	27.6	43.9	123
18021	4.4	11.6	25.4	38.7	35.9	181
TOT	22	57	151	214	233	398
PCT	3.7	9.5	25.3	35.8	39.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.2	.0	.3	.2	.2	.0	5	.8
55/59	.0	.0	.2	.2	1.3	3.1	.3	.0	38	6.1
50/54	.0	.0	.2	.3	3.2	8.1	19.2	15.8	290	46.8
45/49	.0	.0	.0	1.1	4.7	10.2	12.4	10.3	240	38.8
40/44	.0	.0	.0	.3	1.0	2.4	1.9	1.5	44	7.1
35/39	.0	.0	.0	.0	.2	.0	.2	.0	2	.3
TOTAL	0	0	2	12	66	137	229	173	619	100.0
PCT	.0	.0	.3	1.9	10.7	22.1	37.0	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.0	.3	.0	.0	.2	.0	.0
1.1	.0	.2	.8	3.1	.5	.2	.2	.0	.2
6.8	2.4	1.9	4.2	17.7	6.7	2.6	3.2	.0	1.3
10.8	3.3	.4	3.2	7.8	4.2	4.1	4.5	.0	.5
.9	1.1	.2	.8	1.2	.6	1.4	1.1	.0	.0
.1	.0	.0	.0	.0	.0	.2	.0	.0	.0
20.0	6.9	2.7	8.8	30.1	12.0	8.4	9.2	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	65	59	56	50	44	41	40	50.3	298
06009	58	56	54	49	43	40	39	49.2	227
12015	59	56	54	49	42	40	39	48.6	245
18021	64	62	57	50	44	39	37	50.0	286
TOT	65	58	55	50	44	40	37	49.6	1056

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.5	14.7	26.5	33.5	21.8	80	170		
06009	.0	1.5	6.9	18.3	45.0	28.2	84	131		
12015	.0	.7	7.3	21.2	40.9	29.9	84	127		
18021	.0	2.7	12.3	22.5	31.0	31.6	82	187		
TOT	0	14	67	140	230	174	83	625		

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
13/13	.0	.0	.0	.0	.0	.1	.3	3	.1	.3
12/10	.0	.0	.0	.0	.0	.5	.3	6	.0	.8
7/8	.0	.0	.0	.4	.5	.1	.0	8	.0	1.1
6	.0	.0	.3	.3	.5	.3	.0	12	.1	1.5
5	.0	.0	.0	.1	1.1	.4	.0	12	.1	1.5
4	.0	.0	.1	1.7	2.6	.1	.0	35	.3	4.4
3	.0	.0	.1	2.2	2.5	.1	.0	38	.1	4.9
2	.0	.0	.5	4.0	2.8	.1	.0	56	.1	7.3
1	.0	.0	.8	6.7	3.4	.0	.0	83	.7	10.3
0	.0	.1	1.9	11.5	2.5	.0	.0	121	.7	15.3
-1	.0	.0	2.8	8.3	.7	.0	.0	89	.5	11.2
-2	.0	.0	4.9	4.5	.0	.0	.0	71	.3	9.1
-3	.0	.3	6.3	3.0	.3	.0	.0	77	.7	9.5
-4	.0	.5	4.4	.8	.0	.0	.0	43	.4	5.3
-5	.0	1.5	2.6	1.1	.1	.0	.0	40	.1	5.2
-6	.0	1.9	1.5	.1	.0	.0	.0	26	.1	3.3
-7/-8	.3	1.3	1.1	.4	.0	.0	.0	23	.0	3.0
-9/-10	.3	.4	.0	.3	.0	.0	.0	7	.0	.9
-11/-13	.4	.1	.0	.0	.0	.0	.0	4	.0	.5
-14/-16	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	8	48	206	344	129	16	5	756	33	723
PCT	1.1	6.3	27.2	45.9	17.1	2.1	.7	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-2	.0	1.7	.0	.0	.0	.0	1.7	.3	.8	.0	.0	.0	.0	1.1
3-4	.0	2.7	2.3	.0	.0	.0	5.1	.0	1.4	.1	.0	.0	.0	1.5
5-6	.3	.3	3.5	.0	.0	.0	4.4	.0	.1	1.1	.3	.0	.0	1.4
7	.0	.2	1.3	.2	.0	.0	1.7	.0	.3	1.2	.0	.0	.0	1.5
8-9	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.3	.3	.0	.0	.3
10-11	.0	.0	.8	.3	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	9.2	1.6	.3	.0	16.6	.3	2.6	3.0	.5	.0	.0	6.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-2	.2	.7	.0	.0	.0	.0	.9	.1	1.6	.0	.0	.0	.0	1.6
3-4	.0	1.2	.7	.0	.0	.0	1.8	.0	2.0	.9	.0	.0	.0	2.9
5-6	.0	.5	.4	.0	.0	.0	.9	.0	1.6	1.2	.0	.0	.0	2.9
7	.0	.3	.0	.0	.0	.0	.3	.0	.3	.3	.3	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	1.0	.0	.0	.0	3.9	.1	3.4	3.5	1.4	.0	.0	10.3

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SW	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.2	.8	.0	.0	.0	.0	1.0	.1	.8	.0	.0	.0	.0	.0	.9	
1-2	.3	2.4	1.5	.0	.0	.0	6.2	.0	.9	1.1	.0	.0	.0	.0	2.0	
3-4	.0	1.9	3.3	1.3	.0	.0	6.4	.0	.9	1.4	.3	.0	.0	.0	2.3	
5-6	.0	.3	2.5	.8	.3	.0	3.8	.0	.5	1.4	.3	.3	.0	.0	2.4	
7	.0	.0	1.0	1.2	.5	.0	2.3	.0	.0	.2	.0	.0	.0	.0	.2	
8-9	.3	.3	1.2	.9	.0	.0	2.6	.0	.0	.5	.3	.0	.0	.0	.8	
10-11	.0	.0	.7	.5	1.0	.0	2.2	.0	.0	.1	.3	.3	.0	.0	.7	
12	.0	.0	.0	.7	1.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	1.8	.0	2.3	.0	.0	.0	.3	.0	.1	.0	.4	
17-19	.0	.0	.0	.0	.5	.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.5	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.6	10.2	6.1	5.2	.8	28.6	.1	3.1	4.7	1.4	.5	.1	.9	9.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NW	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.2	.5	.7	.0	.0	.0	1.4	.5	.7	.1	.0	.0	.0	.0	1.3	
1-2	.0	.8	.3	.0	.0	.0	1.0	.8	.6	.5	.0	.0	.0	.0	1.8	
3-4	.0	.4	1.2	.0	.0	.0	1.6	.6	.7	.8	.0	.0	.0	.0	2.0	
5-6	.0	.3	.7	.2	.0	.0	1.1	.0	.3	1.2	.1	.0	.0	.0	1.6	
7	.0	.0	.6	.5	.0	.0	1.1	.0	.0	.3	.1	.0	.0	.0	.4	
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.5	.0	.0	.0	.0	.5	
10-11	.0	.0	.9	.5	.0	.0	1.4	.0	.0	.3	.3	.0	.0	.0	.7	
12	.0	.0	.2	.3	.0	.0	.5	.0	.3	.1	.0	.3	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.9	5.1	1.4	.0	.2	8.9	1.9	2.3	3.6	.6	.3	.0	.0	8.9	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.5	7.7	.8	.0	.0	.0	17.0	085
1-2	1.0	11.9	7.2	.0	.0	.0	20.1	
3-4	1.0	6.4	12.6	1.8	.0	.0	21.9	
5-6	.3	2.3	8.5	1.8	.5	.0	13.4	
7	.0	.0	4.1	2.6	.5	.0	7.2	
8-9	.3	.3	4.1	1.8	.3	.0	6.7	
10-11	.0	.0	2.3	2.1	1.3	.0	5.7	
12	.0	.3	.3	1.3	.8	.0	2.6	
13-16	.0	.0	.0	1.5	1.8	.3	3.6	
17-19	.0	.0	.0	.0	.3	.5	1.0	
20-22	.0	.0	.0	.0	.5	.3	.8	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	28.9	39.9	12.9	6.2	1.0	100.0	388

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	3.5	6.9	4.8	3.8	1.9	.8	.2	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	5
6-7	.0	1.1	3.0	6.4	5.8	3.8	2.4	1.6	1.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	166	7
8-9	.0	.2	2.7	3.2	3.8	3.4	3.0	.6	2.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	125	8
10-11	.0	1.0	1.0	2.6	2.7	1.6	1.1	1.3	1.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	83	8
12-13	.0	.0	1.0	.5	.5	.6	.8	.5	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	32	9
>13	.0	.0	.0	.3	.5	.5	.2	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	10
INDEX	1.4	1.1	1.1	.6	.6	1.4	.5	.8	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	52	6
TOTAL	14	43	98	115	111	83	55	32	51	13	8	1	0	0	0	0	0	0	0	624	7
PCT	2.2	6.9	15.7	18.4	17.8	13.3	8.8	5.1	8.2	2.1	1.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1860-1974

MARCH

AREA 0038 CAPE BLANCO
42.9N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.7	.9	1.8	.0	.0	.0	.0	3.4	1.2	.0	2.2	.0	1.0	.0	92.1
NE	4.8	2.4	.6	.0	.0	.0	.0	7.7	.0	.0	1.2	.0	3.0	.0	88.1
E	4.6	.0	10.1	.0	.0	.0	.0	20.7	.0	.0	.0	.0	8.0	.0	71.3
SE	8.4	5.3	9.1	.0	.0	.0	.0	20.9	5.3	.0	4.3	.0	4.3	.0	65.2
S	16.4	4.1	8.2	.0	.0	.0	.0	27.5	9.1	.9	3.2	.4	.4	.4	58.5
SW	6.9	10.0	7.7	.0	.0	.0	.8	25.2	8.1	.0	3.0	.8	.0	.0	62.8
W	5.1	8.8	2.4	.0	.9	.0	1.8	15.8	9.1	.0	2.4	.0	.0	.0	71.7
NW	4.6	3.1	.9	.0	.0	.0	.0	8.6	5.9	.0	.0	.0	.9	.9	83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.8	3.8	.0	.0	.0	.0	9.6	.0	.0	7.7	.0	.0	.0	82.7
TOT PCT	6.9	4.3	4.9	.0	.1	.0	.3	16.2	5.6	.2	2.6	.2	1.0	.2	74.1
TOT OBS:	947														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00103	5.5	3.9	4.3	.0	.0	.0	.4	13.7	4.7	.0	2.3	.8	1.2	.4	77.0
06109	7.5	6.2	4.9	.0	.0	.0	.0	18.1	5.3	.0	1.3	.0	.4	.4	74.3
12115	10.7	4.2	3.7	.0	.0	.0	.5	19.1	3.7	.9	3.3	.0	1.4	.5	71.6
18121	4.2	3.1	6.1	.0	.4	.0	.4	13.7	8.4	.0	4.2	.0	1.1	.0	72.3
TOT PCT	6.8	4.3	4.8	.0	.1	.0	.3	16.0	5.6	.2	2.8	.2	1.0	.3	73.9
TOT OBS:	959														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	6.0	11.4	3.7	.2	.0		21.7	15.3		23.1	25.7	22.5	16.7	20.8	25.9	19.4	23.0
NE	.2	1.8	2.1	.5	.1	.0		4.7	13.6		2.5	.0	5.6	7.3	3.3	5.7	6.5	8.0
E	.2	1.4	.7	.2	.0	.0		2.6	10.5		1.9	3.9	1.0	4.2	1.3	6.8	4.1	2.0
SE	.4	2.3	1.9	.5	.1	.0		5.1	12.6		3.8	3.9	3.8	7.3	5.1	6.1	6.0	8.7
S	.4	5.2	11.5	5.1	1.4	.2		23.7	18.2		25.0	15.8	26.8	26.0	23.6	21.1	22.1	22.3
SW	.7	3.8	6.3	2.4	.5	.0		13.6	16.1		14.2	13.2	12.7	9.4	14.1	13.2	13.3	17.0
W	.6	4.0	4.5	1.9	.4	.0		11.4	14.9		11.3	9.2	8.1	12.5	13.6	9.6	12.8	11.0
NW	.7	5.0	5.6	.9	.1	.0		12.3	12.4		13.9	23.0	12.3	14.6	11.6	9.6	11.3	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9							4.9	.0		4.3	5.3	7.3	4.2	6.7	.0	4.5	.0
TOT OBS	95	332	496	172	30	2	1127		14.6		234	38	206	48	225	57	224	75
TOT PCT	8.4	29.5	44.0	15.3	2.7	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.1	10.7	7.9	1.0	.1			21.7	15.3		23.5	21.4	21.8	20.3	
NE	.7	2.4	1.3	.2	.0			4.7	13.6		2.1	3.9	3.8	6.9	
E	.8	1.3	.4	.0	.0			2.6	10.5		2.1	1.6	2.8	3.6	
SE	1.2	2.5	1.1	.2	.0			5.1	12.6		3.9	4.4	5.3	6.7	
S	1.5	9.8	9.0	3.3	.2			23.7	18.2		23.8	20.3	23.0	22.2	
SW	1.8	5.7	4.6	1.3	.2			13.6	16.1		14.0	12.1	13.9	14.2	
W	1.8	5.3	3.5	.6	.2			11.4	14.9		11.0	9.0	12.8	12.4	
NW	2.7	6.6	2.6	.3	.1			12.3	12.4		15.1	12.7	11.2	10.5	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	4.9							4.9	.0		4.5	6.7	5.3	3.3	
TOT OBS	198	500	345	78	8	1127			14.6		292	254	282	299	
TOT PCT	17.6	44.4	30.4	6.9	.7			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1962-1974
(OVER-ALL) 1860-1974

MARCH

AREA 0038 CAPE BLANCO
42.9N 129.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.5	4.5	22.3	50.3	15.8	2.7	.0	15.0	100.0	292
0600Z	6.7	2.4	29.9	41.7	16.1	2.8	.4	14.7	100.0	294
1200Z	5.3	3.9	36.2	37.9	13.8	2.5	.4	13.8	100.0	282
1800Z	3.3	3.3	29.8	45.5	15.4	2.7	.0	14.9	100.0	299
TOT	35	40	332	496	172	30	2	14.6		1127
PCT	4.9	3.5	29.5	44.0	15.3	2.7	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 (DBSCD)	TOTAL OBS	MEAN CLOUD COVER
N	11.4	2.7	5.6	2.8		3.2
NE	2.4	.7	1.0	.3		2.8
E	.5	.3	.7	.4		4.5
SE	.8	.9	.8	2.3		6.0
S	1.3	1.0	6.0	14.9		6.9
SW	1.4	1.7	4.5	5.1		6.0
W	.7	2.0	3.9	3.3		5.9
NW	2.1	2.2	5.9	2.3		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.1	1.8	2.4		5.4
TOT OBS	155	87	231	242	715	5.3
TOT PCT	21.7	12.2	32.3	33.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.2	.4	.9	2.6	1.5	.7	.0	.0	.1	15.8	
NE	.0	.0	.0	.1	.7	.4	.1	.0	.0	.0	3.1	
E	.0	.0	.1	.0	.1	.4	.0	.0	.0	.0	1.2	
SE	.2	.8	.1	.8	.4	.6	.3	.0	.0	.0	1.7	
S	1.2	.5	1.3	3.3	5.8	3.9	1.0	.4	.3	.0	3.2	
SW	.8	.1	.8	1.4	3.2	2.1	.8	.2	.1	.0	4.7	
W	.0	.0	.4	1.5	3.4	1.5	.2	.1	.1	.0	4.8	
NW	.0	.8	.3	.9	2.8	1.4	.7	.3	.2	.0	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.1	.0	1.4	1.0	.3	.1	.4	.0	2.7	
TOT OBS	13	7	26	64	146	92	24	8	8	5	322	715
TOT PCT	1.8	1.0	3.6	9.0	20.4	12.9	3.4	1.1	1.1	.7	45.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	1.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>OR >5000	1.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>OR >3500	4.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
>OR >2000	12.0	18.3	18.9	18.9	18.9	19.0	19.0	19.0
>OR >1000	26.3	36.6	38.5	39.2	39.4	39.5	39.5	39.5
>OR >500	31.6	44.3	47.3	48.2	48.3	48.5	48.5	48.5
>OR >300	32.8	47.2	50.7	51.7	52.1	52.2	52.2	52.2
>OR >150	33.1	47.6	51.1	52.4	52.6	53.1	53.1	53.1
>OR >0	33.2	47.9	51.8	53.1	53.6	54.7	54.9	54.9
TOTAL	238	343	371	380	384	392	393	393

TOTAL NUMBER OF OBS: 716

PCT FREQ NM <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
15.7	6.4	7.2	8.7	6.4	7.0	9.1	11.2	26.6	1.7	762

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1860-1974

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TABLE 6

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.0	.0	.5	.1	.1	.0	.0	.3	1.2	
	TOT %	.2	.1	.0	.0	.8	.1	.1	.0	.0	.3	1.5	
1/2<1	PCP	.1	.0	.0	.0	.1	.3	.0	.0	.0	.0	.5	
	NO PCP	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.0	.0	.1	.2	.3	.0	.0	.0	.0	.8	
1<2	PCP	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.2	.2	.1	.0	.0	.1	.5	
	TOT %	.0	.0	.0	.0	.8	.3	.1	.0	.0	.1	1.3	
2<5	PCP	.3	.1	.0	.1	1.5	.4	.4	.1	.0	.0	3.0	
	NO PCP	.2	.0	.1	.3	.8	.5	.0	.0	.0	.0	1.9	
	TOT %	.5	.1	.1	.3	2.3	1.0	.4	.1	.0	.0	4.9	
5<10	PCP	.2	.1	.4	.7	2.3	1.7	.9	.5	.0	.5	7.5	
	NO PCP	2.0	.3	.2	.7	5.0	2.0	1.6	1.2	.0	.6	13.6	
	TOT %	2.1	.4	.6	1.4	7.3	3.7	2.6	1.7	.0	1.2	21.1	
10+	PCP	.2	.1	.1	.2	1.5	.6	.7	.4	.0	.0	3.7	
	NO PCP	18.4	3.7	1.5	2.9	11.3	7.1	8.0	9.8	.0	3.9	66.7	
	TOT %	18.6	3.8	1.6	3.1	12.7	7.7	8.7	10.2	.0	3.9	70.4	
TOT OBS													942
TOT PCT		21.5	4.5	2.3	4.9	24.3	13.0	11.9	12.0	.0	5.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.1	.0	.0	.8	.0	.1	.0	.0	.4	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.2	.0	.0	.1	.2	.3	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.8	.5	.1	.0	.0	.1	1.4	
2<5	0-3	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	4-10	.2	.1	.1	.3	.1	.1	.1	.0	.0	.0	1.2	
	11-21	.1	.0	.0	.2	1.6	.6	.2	.0	.0	.0	2.7	
	22+	.0	.0	.0	.0	.6	.2	.1	.0	.0	.0	1.1	
	TOT %	.5	.1	.1	.4	2.6	1.0	.5	.2	.0	.0	5.3	
5<10	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.1	1.2	
	4-10	.4	.2	.3	.4	.8	.7	.6	.6	.0	.0	4.1	
	11-21	1.3	.2	.4	.7	3.6	1.9	1.3	1.1	.0	.0	10.4	
	22+	.4	.0	.0	.3	2.8	1.0	.7	.2	.0	.0	5.3	
	TOT %	2.1	.4	.7	1.4	7.2	3.6	2.7	2.0	.0	1.1	21.2	
10+	0-3	.1	.2	.3	.4	.3	.5	.6	.6	.0	3.7	6.6	
	4-10	5.0	1.6	1.1	1.6	3.4	2.7	3.1	4.1	.0	.0	22.5	
	11-21	10.1	1.6	.3	.9	6.1	3.6	3.2	4.7	.0	.0	30.3	
	22+	3.2	.5	.1	.2	2.3	1.3	1.4	.7	.0	.0	10.0	
	TOT %	18.5	3.9	1.8	3.1	12.2	8.1	8.3	10.1	.0	3.7	69.7	
TOT OBS													1039
TOT PCT		21.4	4.5	2.6	5.1	23.8	13.5	11.6	12.4	.0	5.2	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1860-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

MOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.9	.5	3.9	11.2	18.4	12.6	3.9	1.0	1.0	.0	54.4	45.6	206
06009	.6	1.8	3.6	4.7	24.9	10.7	3.6	.0	.6	1.2	51.5	48.5	169
12015	3.9	.7	2.0	6.6	23.7	13.2	1.3	2.0	1.3	.7	55.3	44.7	152
18021	1.0	1.0	4.8	11.5	15.3	13.4	3.8	1.4	1.4	1.0	54.5	45.5	209
TOT	13	7	27	65	148	92	24	8	8	5	397	339	736
PCT	1.8	1.0	3.7	8.8	20.1	12.5	3.3	1.1	1.1	.7	53.9	46.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.8	1.1	1.1	6.4	17.9	71.8	280
06009	1.2	.8	2.1	4.6	24.1	67.2	241
12015	2.4	1.2	1.6	4.7	23.9	66.3	295
18021	1.8	.4	1.1	5.8	18.9	72.0	273
TOT	19	9	15	57	221	730	1051
PCT	1.8	.9	1.4	5.4	21.0	69.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

MOUR (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.0	7.0	22.6	35.2	42.2	199
06009	.6	5.5	13.9	37.6	48.5	165
12015	4.0	6.7	16.7	40.0	43.3	150
18021	1.0	7.9	21.3	34.7	44.1	202
TOT	13	49	136	262	318	716
PCT	1.8	6.8	19.0	36.6	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.2	.3	.3	.0	.2	6	.9
55/59	.0	.0	.0	.6	1.7	2.8	.9	.3	41	6.3
50/54	.0	.0	.2	1.9	4.8	9.7	16.7	10.5	283	43.7
45/49	.0	.0	.0	.6	4.8	14.2	11.0	12.4	278	43.0
40/44	.0	.0	.0	.0	1.1	1.1	1.9	1.5	36	5.6
35/39	.0	.0	.0	.0	.0	.0	.5	.0	3	.5
TOTAL	0	0	1	21	82	182	200	161	647	100.0
PCT	.0	.0	.2	3.2	12.7	28.1	30.9	24.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.3	.0	.0	.2	.0	.2
1.6	.7	.3	.2	1.5	.4	.5	1.1	.0	.2
10.9	2.2	1.0	2.6	12.2	5.7	4.9	2.7	.0	1.5
10.8	1.3	.3	1.8	9.0	6.1	5.8	7.0	.0	.8
2.0	.4	.2	.0	.7	.5	.5	1.1	.0	.2
.1	.0	.0	.0	.0	.0	.3	.1	.0	.0
25.3	4.6	2.0	4.6	23.7	12.8	12.0	12.2	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	60	57	50	46	42	41	50.9	291
06009	58	56	54	50	44	42	39	49.1	257
12015	55	54	52	49	43	40	39	48.3	285
18021	64	61	56	50	45	43	39	50.4	301
TOT	64	59	55	50	44	41	39	49.7	1134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.0	20.0	32.6	24.6	18.9	78	179
06009	.0	1.3	7.8	29.2	33.8	27.9	83	154
12015	.0	1.3	8.7	20.0	38.7	31.3	84	150
18021	.0	6.3	13.1	30.1	28.4	22.2	80	176
TOT	0	22	83	185	203	162	81	695

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1860-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
9/10	.0	.0	.0	.2	.3	.6	.1	11	.0	1.2
7/8	.0	.0	.7	.0	.6	.0	.0	11	.0	1.2
6	.0	.0	.0	.2	.9	.2	.0	12	.0	1.4
5	.0	.0	.0	.2	.5	.2	.1	9	.0	1.0
4	.0	.0	.1	.3	1.8	.1	.0	22	.0	2.5
3	.0	.0	.2	1.8	1.7	.2	.0	35	.0	4.0
2	.0	.0	.5	4.9	2.7	.1	.0	72	.5	7.7
1	.0	.0	.6	5.9	2.8	.0	.0	82	.0	9.3
0	.0	.0	3.3	12.3	.8	.0	.0	145	.5	15.9
-1	.0	.0	4.1	7.3	1.5	.0	.0	114	.6	12.3
-2	.2	.1	5.6	5.3	.6	.0	.0	105	.1	11.7
-3	.0	.5	4.6	3.2	.2	.0	.0	75	.3	8.1
-4	.0	.6	4.2	2.5	.0	.0	.0	64	.3	6.9
-5	.0	1.2	2.5	2.4	.0	.0	.0	54	.2	5.9
-6	.1	.7	1.7	.9	.0	.0	.0	30	.0	3.4
-7/-8	.1	1.5	1.1	.1	.0	.0	.0	25	.3	2.5
-9/-10	.0	.5	.8	.2	.0	.0	.0	13	.0	1.5
-11/-13	.2	.0	.1	.0	.0	.0	.0	3	.0	.3
TOTAL	6	44	266	424	128	13	5	886	25	861
PCT	.7	5.0	30.0	47.9	14.4	1.5	.6	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.8	.0	.0	.0	.0	.8	.2	.2	.0	.0	.0	.0	.5
1-2	.0	3.4	1.3	.0	.0	.0	4.7	.0	.8	.1	.0	.0	.0	.9
3-4	.0	1.9	4.8	.2	.0	.0	6.7	.0	.8	.9	.0	.0	.0	1.6
5-6	.0	.0	2.5	1.2	.0	.0	3.8	.0	.2	.7	.1	.0	.0	1.0
7	.0	.0	1.9	.9	.0	.0	3.3	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.7	.5	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.2
12	.0	.0	.2	.2	.0	.0	.5	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.2	11.3	4.6	.2	.0	22.3	.2	2.1	2.9	.1	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.2	.4	.0	.0	.0	.6	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.5	.5	.0	.0	.0	.9
5-6	.0	.0	.2	.2	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.6	.2	.0	.0	1.5	.0	2.1	.9	.3	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0038 CAPE BLANCO
42.9N 129.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0		1.0	.0	.1	.0	.0	.0	.0		.1
1-2	.0	2.2	2.1	.0	.0	.0		4.3	.5	2.2	1.6	.0	.0	.0		4.3
3-4	.0	1.2	5.1	1.6	.0	.0		7.9	.0	.8	1.2	.0	.0	.0		2.0
5-6	.0	.2	3.5	1.8	.5	.0		5.9	.0	.1	1.7	.6	.0	.0		2.3
7	.0	.0	1.3	1.3	.2	.0		2.8	.0	.3	.6	.3	.0	.0		1.2
8-9	.0	.0	.2	1.8	.0	.0		2.0	.0	.0	.3	.3	.0	.0		.6
10-11	.0	.0	.6	.5	.2	.0		1.3	.0	.0	.3	.2	.0	.0		.5
12	.0	.0	.2	.4	.5	.0		1.1	.0	.0	.1	.8	.0	.0		.8
13-16	.0	.0	.0	.0	.5	.2		.7	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.3	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.6	13.0	7.9	2.1	.2		27.8	.5	3.5	5.8	2.2	.2	.0		12.1

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.6	.0	.0	.0	.0		.8	.2	.4	.0	.0	.0	.0		.6	
1-2	.2	3.3	.0	.0	.0	.0		3.6	.2	1.8	.4	.0	.0	.0		2.6	
3-4	.0	.4	.2	.4	.0	.0		1.1	.0	.8	2.8	.1	.0	.0		3.6	
5-6	.0	.6	1.1	.2	.0	.0		1.9	.0	.2	1.0	.4	.0	.0		1.6	
7	.0	.2	.2	.0	.0	.0		.4	.0	.0	.3	.0	.0	.0		.3	
8-9	.0	.0	.2	.5	.0	.0		.6	.0	.2	.2	.7	.0	.0		1.2	
10-11	.0	.0	.2	.0	.0	.0		.2	.0	.0	.2	.2	.0	.0		.5	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.2	.0	.0	.0		.2	.0	.0	.3	.1	.0	.0		.4	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	5.2	2.1	1.1	.0	.0		8.9	.5	3.5	5.4	1.4	.0	.0		10.8	91.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	4.0	.0	.0	.0	.0	13.1	
1-2	.9	14.8	6.3	.0	.0	.0	22.1	
3-4	.0	6.8	15.3	2.3	.0	.0	24.4	
5-6	.0	1.4	10.8	4.5	.5	.0	17.1	
7	.0	.5	4.9	3.3	.2	.0	8.9	
8-9	.0	.2	.9	4.2	.0	.0	5.4	
10-11	.0	.0	2.1	1.4	.2	.0	3.8	
12	.0	.0	.7	1.4	.5	.0	2.6	
13-16	.0	.0	.5	.2	.7	.2	1.6	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	27.7	41.5	17.8	2.6	.2	100.0	426

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	3.9	8.6	5.5	3.0	1.7	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	4
6-7	.0	.7	3.0	6.2	5.8	3.4	4.5	1.4	1.2	.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	203	7
8-9	.0	1.0	1.3	5.4	5.1	4.5	2.5	1.2	2.1	.4	.5	.3	.1	.0	.0	.0	.0	.0	.0	186	8
10-11	.0	.5	.4	1.3	1.8	1.8	1.8	1.3	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	8
12-13	.0	.0	.4	.3	1.0	.3	.7	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
>13	.0	.0	.0	.0	.0	.4	.4	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	14	12
INDET	2.1	.1	.3	1.0	1.4	1.2	.7	.4	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	61	6
TOTAL	24	48	109	150	139	101	90	44	37	10	6	4	2	0	0	0	0	0	0	764	7
PCT	3.1	6.3	14.3	19.6	18.2	13.2	11.8	5.8	4.8	1.3	.8	.5	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	.5	1.0	.0	.0	.0	.0	2.1	1.2	.0	5.4	.0	.8	.0	90.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0	2.0	.0	89.1
E	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	10.3	.0	.0	.0	82.1
SE	19.6	.0	.0	.0	.0	.0	3.6	23.2	11.6	.0	9.8	.0	.0	.0	55.4
S	15.7	3.0	3.0	.0	.0	.0	.0	21.1	8.3	.0	3.4	.5	1.1	.0	65.6
SW	10.0	3.9	5.6	.0	.0	.0	.0	18.7	7.2	.0	4.8	.0	.0	.0	69.4
W	5.0	.8	3.1	.0	.0	.0	.0	8.9	10.5	.0	3.3	.0	.8	.0	76.6
NW	1.6	1.6	2.6	.0	.0	.0	.0	5.7	3.6	.0	3.0	.0	.0	.0	87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	.0	16.7	.0	.0	.0	81.3
TOT PCT	5.2	1.4	2.2	.0	.0	.0	.1	8.7	4.5	.0	5.2	.1	.6	.0	81.0
TOT OBS:	1156														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.7	1.5	2.7	.0	.0	.0	.0	8.6	4.7	.0	4.7	.0	.3	.0	81.6
06009	3.9	1.8	2.5	.0	.0	.0	.4	8.4	6.0	.0	3.9	.0	.7	.0	81.1
12015	6.5	1.6	2.8	.0	.0	.0	.0	10.3	3.2	.0	3.6	.8	.0	.0	81.9
18021	5.8	.6	1.6	.0	.0	.0	.0	8.1	3.9	.0	8.7	.0	1.3	.0	78.1
TOT PCT	5.2	1.4	2.4	.0	.0	.0	.1	8.8	4.5	.0	5.3	.2	.6	.0	80.6
TOT OBS:	1180														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	10.1	16.3	9.2	1.1	.0		33.3	15.4		34.8	31.4	35.2	35.5	35.3	29.8	31.5	21.4
NE	.1	2.1	1.7	.4	.1	.0		4.5	12.7		1.3	3.0	5.2	7.0	6.0	6.0	5.7	4.9
E	.2	.9	.6	.0	.0	.0		1.7	9.7		1.4	2.5	.4	.0	2.3	.0	2.5	3.9
SE	.3	1.3	.9	.3	.1	.0		2.9	12.2		1.5	4.7	2.3	9.3	1.1	7.7	3.5	7.9
S	.8	5.1	6.4	2.6	.7	.0		15.6	14.9		13.2	17.8	14.7	11.6	12.7	19.0	21.0	17.8
SW	.4	4.9	3.9	1.0	.1	.0		10.4	12.2		13.4	7.2	10.4	8.1	9.2	5.4	8.0	15.8
W	.8	5.6	4.0	.4	.0	.0		10.9	10.3		14.0	1.7	12.7	10.5	7.7	7.1	9.4	14.5
NW	.8	7.3	6.5	1.6	.2	.0		16.5	12.4		17.6	28.4	14.7	19.7	17.4	20.2	14.2	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	.0	.0	.0	.0	.0		4.3	.0		2.7	3.4	4.5	2.3	8.2	4.8	4.0	1.3
TOT OBS	113	498	540	155	30	0	1336		13.0		331	59	266	43	244	42	275	76
TOT PCT	8.5	37.3	40.4	11.6	2.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	4.1	16.4	10.2	2.3	.3		33.3	15.4	34.3	35.3	34.5	29.3	
NE	1.0	2.4	.8	.2	.0		4.5	12.7	1.5	3.4	6.0	5.6	
E	.7	.8	.2	.0	.0		1.7	9.7	1.6	.3	1.9	2.8	
SE	.9	1.3	.7	.1	.0		2.9	12.2	2.0	3.2	2.1	4.4	
S	2.7	7.0	4.6	1.3	.0		15.6	14.9	13.9	14.2	13.6	20.3	
SW	2.4	5.3	2.4	.3	.0		10.4	12.2	12.4	10.1	8.7	9.7	
W	3.2	6.3	1.3	.1	.0		10.9	10.3	12.2	12.4	7.6	10.7	
NW	4.0	8.7	2.8	.9	.0		16.5	12.4	19.2	14.8	17.8	13.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.3						4.3	.0	2.8	4.2	7.7	3.4	
TOT OBS	312	643	307	70	4	1336		13.0	390	309	286	351	
TOT PCT	23.4	48.1	23.0	5.2	.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.8	4.4	38.5	38.2	14.1	2.1	.0	13.4	100.0	390
0600Z	4.2	3.6	35.0	44.0	12.0	1.3	.0	13.0	100.0	309
1200Z	7.7	4.5	32.9	41.6	11.2	2.1	.0	12.6	100.0	286
1800Z	3.4	4.0	41.6	38.7	8.8	3.4	.0	12.7	100.0	351
TOT	38	55	498	540	155	30	0	13.0		1336
PCT	4.3	4.1	37.3	40.4	11.6	2.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9		MEAN CLOUD COVER
				DBSCD	TOTAL OBS	
N	13.5	6.0	7.8	8.1		4.0
NE	2.0	1.0	.7	.9		3.4
E	.4	.4	.6	.9		4.5
SE	.1	.1	.5	1.4		7.0
S	.8	1.3	5.2	7.6		6.6
SW	.7	1.2	4.0	4.4		6.3
W	1.1	2.2	4.0	5.5		5.7
NW	3.3	2.8	6.3	3.6		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.9	.5	2.1		5.2
TOT OBS	212	146	271	294	923	5.1
TOT PCT	23.0	15.8	29.4	31.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	2500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	6499	8499	7999		ANY HGT	OBS
1.4	.2	.8	1.7	3.4	4.3	.8	.2	.3	.1	22.3	
.0	.1	.0	.3	.5	.2	.0	.0	.0	.0	3.2	
.1	.0	.0	.0	.4	.1	.0	.0	.0	.0	.9	
.1	.0	.4	.3	.4	.2	.1	.0	.0	.0	.6	
.3	.2	1.1	1.7	2.9	2.7	.6	.5	.0	.1	4.7	
.2	.1	.2	1.1	2.2	1.7	.4	.0	.3	.1	3.7	
.4	.1	.4	.9	1.4	2.0	.4	.0	.3	.0	4.9	
.3	.1	.3	.9	3.0	1.9	.5	.1	.3	.1	8.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.1	.1	.4	.2	.5	.1	.0	.0	.0	2.4	
32	8	32	65	133	128	29	8	11	4	473	923
3.5	.9	3.5	7.0	14.4	13.9	3.1	.9	1.2	.4	51.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.3	1.4	1.4	1.4	1.4	1.5	1.5
= OR >5000	1.7	2.0	2.1	2.1	2.1	2.1	2.2	2.2
= OR >3500	4.3	5.0	5.3	5.3	5.3	5.3	5.5	5.5
= OR >2000	14.5	18.8	19.6	19.7	19.7	19.7	19.8	19.8
= OR >1000	24.6	32.1	33.8	34.0	34.0	34.0	34.1	34.1
= OR >600	29.1	37.8	40.2	40.5	41.0	41.0	41.1	41.1
= OR >300	30.7	40.1	43.6	44.1	44.6	44.6	44.7	44.7
= OR >150	31.0	40.7	44.5	45.0	45.6	45.6	45.7	45.7
= OR >0	31.0	41.2	45.3	46.3	47.2	48.0	48.9	48.9
TOTAL	290	385	424	433	441	449	457	457

TOTAL NUMBER OF OBS: 923

PCT FREQ NH <5/8: 51.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
15.8	6.4	10.1	9.4	8.4	6.7	9.0	7.0	24.0	3.2	969

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.2	
	NO PCP	1.1	.1	.0	.0	.1	.0	.2	.1	.0	.3	1.9	
	TOT %	1.1	.1	.0	.0	.2	.0	.2	.2	.0	.3	2.1	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	*	*	.0	.0	.2	
	NO PCP	.0	.0	.2	.2	.3	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.2	.2	.3	.0	*	*	.0	.0	.8	
1<2	PCP	.2	.0	.0	.1	.2	*	*	.1	.0	.0	.7	
	NO PCP	.0	.1	.0	.2	.1	.4	*	.0	.0	.2	1.0	
	TOT %	.2	.1	.0	.2	.3	.4	.1	.1	.0	.2	1.7	
2<5	PCP	.1	.0	.0	*	1.2	.9	.1	.1	.0	.0	2.4	
	NO PCP	.4	.1	.0	.1	.3	.0	.1	.4	.0	.1	1.3	
	TOT %	.5	.1	.0	.2	1.5	.9	.2	.5	.0	.1	3.9	
5<10	PCP	.2	.0	.1	.2	1.0	.6	.7	.6	.0	.1	3.3	
	NO PCP	5.6	.8	.0	.2	2.8	1.1	1.4	2.7	.0	.3	15.0	
	TOT %	5.8	.8	.1	.4	3.8	1.7	2.1	3.3	.0	.4	18.3	
..10+	PCP	.2	.0	.0	.3	.8	.3	.2	.1	.0	.0	1.9	
	NO PCP	25.8	3.3	1.4	1.2	9.1	6.6	8.2	12.6	.0	3.1	71.4	
	TOT %	26.0	3.3	1.4	1.5	10.0	6.9	8.4	12.7	.0	3.1	73.3	
TOT OBS		1150											
TOT PCT		31.6	4.4	1.7	2.4	16.0	9.9	11.0	16.7	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.8	.1	.0	.0	.0	.0	.2	.1	.0	.0	1.2	
	11-21	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	1.1	.1	.0	.0	.2	.0	.2	.1	.0	.3	2.0	
1/2<1	0-3	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.0	*	*	.0	.0	.2	
	TOT %	.0	.0	.2	.2	.3	.0	*	*	.0	.0	.8	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.1	.0	.0	*	.3	.1	.1	.0	.0	.9	
	11-21	.0	.0	.0	*	*	.2	.0	.0	.0	.0	.2	
	22+	*	.0	.0	.2	.2	.0	*	*	.0	.0	.5	
	TOT %	.3	.1	.0	.3	.3	.5	.1	.1	.0	.2	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.1	.0	.1	.2	.2	.1	.1	.0	.0	1.0	
	11-21	.3	.0	.0	*	1.0	.5	.1	.3	.0	.0	2.2	
	22+	.1	.0	.0	*	.3	.2	.0	.0	.0	.0	.6	
	TOT %	.6	.1	.0	.2	1.5	.9	.1	.4	.0	.2	4.1	
5<10	0-3	.3	.0	.0	.0	.1	.0	.0	.1	.0	.6	1.0	
	4-10	1.9	.3	*	.3	1.0	.5	1.2	1.4	.0	.0	6.6	
	11-21	2.1	.2	.1	.1	1.5	.8	.7	1.1	.0	.0	8.5	
	22+	1.5	.2	.0	.0	1.1	.3	.1	.6	.0	.0	3.8	
	TOT %	5.7	.8	.1	.3	3.6	1.6	2.1	3.1	.0	.6	18.0	
10+	0-3	.4	*	.2	.1	.6	.4	.7	.8	.0	3.2	6.4	
	4-10	7.3	1.5	.8	.9	3.9	3.6	3.6	5.5	.0	.0	27.4	
	11-21	14.4	1.4	.4	.4	3.9	2.3	3.3	5.1	.0	.0	31.1	
	22+	4.5	.3	.0	.1	1.5	.6	.3	1.2	.0	.0	8.5	
	TOT %	26.5	3.2	1.4	1.5	9.9	6.9	8.1	12.6	.0	3.2	73.3	
TOT OBS		1252											
TOT PCT		34.2	4.4	1.6	2.5	15.9	9.9	10.6	16.5	.0	4.4	100.0	

APRIL

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.6	1.1	2.6	8.0	12.0	13.5	4.4	2.2	1.5	.0	47.8	52.2	274
06009	3.3	.4	4.3	7.3	12.9	11.2	1.7	.0	1.3	.9	44.0	56.0	232
12015	2.7	.0	3.7	5.9	17.1	18.2	3.7	.5	.5	.5	52.9	47.1	187
18021	4.3	2.0	3.9	6.3	15.4	14.6	2.8	.4	1.2	.4	51.2	48.8	254
TOT	32	9	34	66	134	134	30	8	11	4	462	485	947
PCT	3.4	1.0	3.6	7.0	14.1	14.1	3.2	.8	1.2	.4	48.8	51.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.9	.8	.5	4.5	20.1	71.1	974
06009	1.3	.0	2.7	4.0	13.6	78.4	301
12015	.4	.7	2.6	4.4	16.5	75.5	273
18021	2.7	2.1	1.8	4.6	20.4	68.3	328
TOT	25	12	23	56	228	932	1276
PCT	2.0	.9	1.8	4.4	17.9	73.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.2	7.0	16.2	32.1	51.7	271
06009	3.9	8.7	18.3	25.8	55.9	229
12015	2.7	7.1	14.8	28.8	46.4	183
18021	4.4	11.1	19.0	32.9	48.0	232
TOT	31	80	161	300	474	935
PCT	3.3	8.6	17.2	22.1	50.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.1	.1	.0	3	.4
60/64	.0	.0	.1	.0	.1	.1	.3	.1	8	.9
55/59	.0	.1	.0	1.0	1.9	2.0	4.2	1.5	74	10.8
50/54	.0	.0	.1	1.3	7.8	12.2	18.8	12.7	360	52.7
45/49	.0	.0	.0	.6	4.5	10.4	11.7	5.7	225	32.9
40/44	.0	.0	.0	.0	.0	1.0	.4	.7	15	2.2
TOTAL	0	1	2	20	99	177	242	142	683	100.0
PCT	.0	.1	.3	2.9	14.5	25.9	35.4	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1
60/64	.4	.0	.0	.0	.1	.0	.3	.1	.0	.0
55/59	2.4	.4	.0	.3	2.6	1.3	1.0	2.7	.0	.1
50/54	10.8	.7	.6	1.3	11.7	5.5	5.2	8.6	.0	2.2
45/49	11.2	1.1	.6	.8	4.5	3.3	5.0	6.1	.0	.4
40/44	.0	.0	.1	.0	1.0	.3	.4	.4	.0	.0
TOTAL	31.1	2.1	1.3	2.6	19.9	10.4	11.8	17.9	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	64	59	52	47	44	43	52.0	390
06009	60	57	54	49	43	40	39	49.3	313
12015	58	57	54	49	45	41	40	49.2	295
18021	66	61	58	51	45	43	43	51.0	356
TOT	66	61	57	50	45	42	39	50.5	1354

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.9	17.2	27.9	36.3	13.7	78	204		
06009	.0	.6	15.3	25.6	36.4	22.2	82	176		
12015	.0	1.4	7.1	30.7	30.7	30.0	83	140		
18021	.0	5.8	17.4	19.8	36.0	20.9	80	172		
TOT	0	23	102	179	243	145	81	692		

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1958-1974

APRIL

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 46	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	W FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.4	5	.0	.5
11/13	.0	.0	.0	.0	.0	.2	.5	.0	7	.0	.6
9/10	.0	.0	.0	.0	.2	.4	.0	.0	6	.0	.5
7/8	.0	.0	.0	.0	.7	1.2	.1	.0	22	.2	1.8
6	.0	.0	.0	.0	1.0	.5	.0	.0	16	.2	1.3
5	.0	.0	.0	.2	1.3	.7	.1	.0	25	.0	2.3
4	.0	.0	.4	.6	1.4	.2	.1	.0	29	.2	2.5
3	.0	.0	.0	1.2	2.7	.5	.0	.0	49	.5	4.0
2	.0	.0	.4	4.7	4.1	.3	.0	.0	104	.5	9.0
1	.0	.0	.5	6.9	3.0	.1	.0	.0	115	.7	9.7
0	.0	.0	1.7	9.4	1.8	.0	.0	.0	142	.5	12.5
-1	.0	.0	2.4	10.0	1.8	.0	.0	.0	156	1.2	13.0
-2	.0	.0	5.5	6.8	.4	.0	.0	.0	139	.5	12.1
-3	.0	.0	4.9	2.6	.3	.0	.0	.0	86	.3	7.6
-4	.0	.1	5.8	1.6	.0	.0	.0	.0	83	.1	7.5
-5	.0	.6	3.3	1.1	.0	.0	.0	.0	55	.3	4.7
-6	.0	1.6	1.0	.3	.0	.0	.0	.0	32	.0	2.9
-7/-8	.0	.6	.6	.4	.0	.0	.0	.0	18	.0	1.6
-9/-10	.1	.5	.1	.0	.0	.0	.0	.0	7	.0	.6
-11/-13	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	4		291		205		8		1099	55	1044
PCT	.4	3.5	26.5	46.0	18.7	4.0	.7	.4	100.0	5.0	95.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	3.4	3.5	.0	.0	.0	4.3	.0	.8	.2	.0	.0	.0	1.0
1-2	.0	3.2	3.5	.0	.0	.0	6.7	.0	.8	1.0	.0	.0	.0	1.8
3-4	.0	3.4	8.4	1.5	.0	.0	13.3	.0	.4	.5	.0	.0	.0	.9
5-6	.0	.3	5.0	.5	.0	.0	5.8	.0	.3	.4	.0	.0	.0	.8
7	.0	.1	2.0	1.4	.2	.0	3.7	.0	.0	.4	.3	.0	.0	.4
8-9	.0	.0	.8	1.0	.0	.0	1.5	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.4	.7	.3	.0	1.4	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.4	20.7	5.4	.8	.0	37.7	.0	2.4	2.6	.4	.0	.0	5.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.3	.3	.0	.0	.0	.7	.2	.3	.0	.0	.0	.0	.5
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.3	.0	.0	.0	1.1	.2	.9	.3	.0	.0	.0	1.4

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5	.2	.8	.2	.0	.0	.0	1.1
1-2	.3	1.9	1.5	.0	.0	.0	3.7	.2	2.7	.3	.0	.0	.0	3.1
3-4	.0	.9	1.7	.2	.0	.0	2.8	.0	.9	2.0	.3	.0	.0	3.2
5-6	.0	.1	2.0	.9	.1	.0	3.1	.0	.2	.4	.2	.0	.0	.9
7	.0	.2	.2	.4	.2	.0	.9	.0	.0	.5	.0	.0	.0	.6
8-9	.0	.0	.0	.3	.2	.0	.4	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.0	5.5	2.1	1.1	.0	13.4	.4	4.6	3.8	1.2	.0	.0	10.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.5	.2	.0	.0	.0	2.0	.4	1.6	.4	.0	.0	.0	2.4	
1-2	.3	2.5	.0	.0	.0	.0	2.8	.2	3.1	.9	.0	.0	.0	4.1	
3-4	.0	1.2	1.7	.0	.0	.0	2.9	.0	2.4	2.2	.1	.0	.0	4.7	
5-6	.0	.6	1.0	.1	.0	.0	1.7	.0	.9	1.4	.4	.0	.0	2.6	
7	.0	.2	.5	.0	.0	.0	.7	.0	.0	.6	.4	.0	.0	1.1	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	6.0	3.4	.2	.0	.0	10.2	.6	8.0	5.8	1.2	.2	.0	15.7	95.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.8	9.9	1.6	.0	.0	.0	18.3	
1-2	1.1	14.7	7.5	.0	.0	.0	23.3	
3-4	.0	9.6	16.5	2.1	.0	.0	28.2	
5-6	.0	2.4	10.4	2.1	.2	.0	15.1	
7	.0	.5	3.9	2.6	.3	.0	7.3	
8-9	.0	.0	1.3	1.9	.2	.0	3.4	
10-11	.0	.0	.6	1.0	.5	.0	2.1	
12	.0	.0	.2	.5	.2	.0	.8	
13-16	.0	.0	.0	.2	.3	.0	.5	
17-19	.0	.0	.3	.2	.2	.0	.6	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	37.1	42.3	10.5	2.1	.0	100.0	617

PERIOD: (OVER-ALL) 1969-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.5	7.9	13.2	8.5	5.4	3.4	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	382	4
6-7	.0	1.2	5.8	7.2	4.5	3.6	1.6	.5	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	241	6
8-9	.0	.6	2.1	3.5	3.5	2.6	1.3	.5	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	145	7
10-11	.0	.5	.6	2.0	1.2	.6	.5	1.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	7
12-13	.0	.0	.7	.2	.0	.2	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
>13	.0	.0	.0	.4	.4	.7	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	19	9
INDEX	2.1	1.1	1.4	1.7	.4	.5	.0	.1	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	5
TOTAL	25	107	227	223	146	111	41	30	20	9	10	2	0	0	0	0	0	0	0	0	951	6
PCT	2.6	11.3	23.9	23.4	15.4	11.7	4.3	3.2	2.1	.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1884-1973

MAY

AREA 0038 CAPE BLANCO
43.0N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.1	.2	1.5	.0	.0	.0	.0	2.5	.7	.0	3.7	.7	2.6	.0	89.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	98.1
E	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	9.1	.0	.0	.0	81.8
SE	22.1	6.5	9.1	.0	.0	.0	.0	38.4	5.2	.0	20.8	.0	.0	.0	37.7
S	19.5	3.8	7.2	.0	.0	.0	.0	23.8	8.1	.0	5.6	.0	2.7	.0	59.8
SW	11.5	3.0	3.3	.0	.0	.0	.0	17.8	5.2	.0	7.0	1.5	.0	.0	68.5
W	3.9	5.0	1.2	.0	.0	.0	.0	10.0	4.1	.0	3.9	.0	1.5	.0	76.4
NW	4.1	.9	.9	.0	.0	.0	.0	5.9	1.5	.0	5.7	.6	1.4	.0	84.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	1.0	.0	.0	.0	.0	2.0	2.0	.0	8.8	.0	.0	.0	87.3
TOT PCT	4.1	1.3	2.2	.0	.0	.0	.0	7.4	2.7	.0	5.3	.5	1.8	.0	82.3
TOT OBS:	1014														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.0	.7	.7	.0	.0	.0	.0	3.0	2.0	.0	7.8	.3	3.0	.0	83.8
06009	5.6	1.2	2.8	.0	.0	.0	.0	9.6	2.8	.0	3.2	.8	1.6	.0	81.9
12015	6.9	2.4	2.4	.0	.0	.0	.0	11.4	3.3	.0	3.3	.4	.8	.0	80.9
18021	2.7	.8	3.1	.0	.0	.0	.0	6.2	2.7	.0	7.0	.4	2.3	.0	81.3
TOT PCT	4.2	1.2	2.2	.0	.0	.0	.0	7.3	2.7	.0	5.4	.5	2.0	.0	82.1
TOT OBS:	1048														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+					00	03	06	09	12	15	18	21
N	.7	8.8	21.7	11.1	1.2	.2	.2	43.7	17.6	43.7	17.6	43.7	54.1	43.2	48.0	40.5	33.3	46.3	33.2
NE	.2	1.2	1.3	.4	.0	.0	.0	3.0	12.8	1.3	3.6	1.3	3.6	1.0	6.1	4.4	7.7	4.4	1.6
E	.1	.3	.4	.1	.0	.0	.0	.8	11.4	.3	.0	.3	.0	1.7	2.0	.9	.0	.8	.0
SE	.1	1.0	.9	.2	.0	.0	.0	2.1	12.2	2.2	2.7	1.2	1.0	1.0	2.0	2.6	2.1	4.7	
S	.4	4.9	4.6	1.0	.0	.0	.0	10.9	12.2	10.4	9.1	9.3	8.2	10.6	17.9	12.7	12.5		
SW	.3	3.6	2.6	.5	.0	.0	.0	6.9	11.3	6.7	6.4	7.0	5.1	7.7	5.1	4.6	13.6		
W	.3	4.0	1.6	.5	.0	.0	.0	6.5	10.0	6.9	5.5	5.7	3.1	6.3	9.0	5.8	13.3		
NW	.4	7.0	7.0	2.3	.2	.0	.0	16.9	13.0	17.5	15.0	20.4	20.4	16.2	21.8	12.2	17.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0	8.7	3.6	10.6	6.1	11.5	2.6	11.1	1.6		
TOT OBS	139	369	479	193	17	2	1199	13.4		288	55	227	49	252	39	225	64		
TOT PCT	11.6	30.8	39.9	16.1	1.4	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	41+	41+					00	03	06	12	18
N	3.1	17.4	18.7	4.2	.3	.3	.3	43.7	17.6	43.7	17.6	47.2	44.0	39.5	43.4	
NE	.7	1.4	.9	.0	.0	.0	.0	3.0	12.8	1.7	1.9	1.7	1.9	1.7	3.8	
E	.3	.3	.2	.0	.0	.0	.0	.8	11.4	.3	.0	.3	.0	.0	.0	
SE	.4	1.1	.5	.0	.0	.0	.0	2.1	12.2	2.3	1.2	2.1	2.1	2.7		
S	2.3	6.0	2.3	.2	.0	.0	.0	10.9	12.2	10.2	9.1	11.6	12.6			
SW	1.4	4.3	1.2	.0	.0	.0	.0	6.9	11.3	6.6	6.7	7.4	7.0			
W	2.1	3.6	.8	.1	.0	.0	.0	6.5	10.0	6.7	5.3	6.6	7.4			
NW	4.0	8.0	4.1	.8	.0	.0	.0	16.9	13.0	17.1	20.4	16.9	13.4			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0	7.9	9.8	10.3	9.0			
TOT OBS	283	504	344	64	4	1199		13.4		343	276	291	289			
TOT PCT	23.6	42.0	28.7	5.3	.3			100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1884-1973

MAY

AREA 0038 CAPE BLANCO
43.0N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	7.9	2.3	28.0	42.6	18.1	1.2	.0	14.0	100.0	343
0400	9.8	2.2	31.2	38.4	17.4	1.1	.0	13.0	100.0	276
1200	10.3	1.7	31.6	40.9	14.1	1.0	.3	13.1	100.0	291
1800	9.0	3.5	32.9	37.4	14.5	2.4	.3	13.2	100.0	289
TOT	110	29	369	479	193	17	2	13.4		1199
PCT	9.2	2.4	30.8	39.9	16.1	1.4	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	17.2	9.5	9.8	11.6		4.2
NE	.6	.3	.8	.6		5.0
E	.4	.0	.0	.4		4.8
SE	.0	.0	.4	1.2		7.6
S	1.2	.4	3.5	5.7		6.5
SW	.5	.3	1.9	2.4		6.4
W	.7	1.1	2.7	1.6		5.6
NW	4.3	2.2	4.9	5.4		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	1.0	2.5	7.0		6.3
TOT OBS	208	87	210	285	790	5.1
TOT PCT	26.3	11.0	26.6	36.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.9	.3	.5	3.6	5.7	5.6	1.4	.1	.0	.0	28.1	
.0	.1	.0	.3	.1	.6	.0	.0	.0	.0	1.1	
.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.4	
.3	.0	.3	.0	.3	.4	.1	.0	.0	.1	.2	
1.0	.0	.9	2.0	2.2	.9	.2	.1	.1	.1	3.4	
.2	.1	.7	.6	.8	1.0	.1	.0	.0	.0	1.6	
.0	.1	.1	.7	1.0	1.2	.1	.2	.0	.0	2.8	
.0	.0	.3	1.6	3.1	3.2	.8	.0	.0	.0	7.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.3	.0	.8	.6	4.3	1.8	.3	.4	.3	3.0	
21	7	23	76	110	137	35	6	4	3	368	790
2.7	.9	2.9	9.6	13.9	17.3	4.4	.8	.5	.4	46.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.7	.9	.9	.9	.9	.9	.9
>5000	.9	1.5	1.6	1.7	1.7	1.7	1.7	1.7
>3500	4.2	5.8	5.9	6.0	6.0	6.0	6.0	6.0
>2000	15.0	23.2	23.4	23.8	23.9	23.9	23.9	23.9
>1000	23.2	35.4	36.6	37.1	37.4	37.4	37.4	37.4
>600	28.7	43.9	45.6	46.2	46.5	46.5	46.6	46.6
>300	29.8	46.0	48.3	49.1	49.3	49.3	49.4	49.4
>150	30.1	46.4	49.0	49.7	50.1	50.2	50.3	50.3
>0	30.3	47.6	50.4	51.5	52.0	52.8	53.0	53.0
TOTAL	246	386	409	418	422	428	430	430

TOTAL NUMBER OF OBS: 811

PCT FREQ NM <5/8: 47.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.0	8.0	9.7	6.9	5.2	5.9	6.7	8.8	29.5	2.2	843

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1984-1973

MAY

AREA 0038 CAPE BLANCO
43.0N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.1	.1	.2	.0	*	.0	.2	1.4	
	TOT %	.6	.0	.0	.1	.1	.2	.0	*	.0	.2	1.4	
1/2<1	PCP	.2	.0	.0	.0	.1	.0	.1	*	.0	.0	.4	
	NO PCP	.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.7	
	TOT %	.7	.0	.0	.0	.1	.2	.1	*	.0	.0	1.1	
1<2	PCP	.1	.0	.0	.1	.3	.0	.0	.1	.0	.0	.6	
	NO PCP	.1	.0	.0	.1	.1	.0	.1	.3	.0	.0	.7	
	TOT %	.2	.0	.0	.2	.4	.0	.1	.4	.0	.0	1.3	
2<5	PCP	.1	.0	.0	.2	.6	.4	.1	*	.0	.0	1.4	
	NO PCP	.6	.1	.0	.1	.6	.2	.3	.5	.0	.3	2.8	
	TOT %	.7	.1	.0	.2	1.2	.6	.4	.6	.0	.3	4.2	
5<10	PCP	.3	.0	.0	.2	1.4	.7	.4	.6	.0	.1	3.8	
	NO PCP	8.4	.6	.2	.3	2.1	1.4	1.0	2.8	.0	3.1	19.9	
	TOT %	8.7	.6	.2	.6	3.5	2.1	1.4	3.5	.0	3.2	23.6	
10+	PCP	.4	.0	.0	.1	.2	.1	.0	.1	.0	.1	1.2	
	NO PCP	32.8	2.0	.6	.6	5.4	3.4	4.4	11.7	.0	6.3	67.3	
	TOT %	33.3	2.0	.6	.7	5.7	3.5	4.4	11.8	.0	6.4	68.4	
TOT OBS													1011
TOT PCT		44.2	2.7	.8	1.9	11.0	6.7	6.3	16.3	.0	10.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.3	.0	.0	.1	.1	*	.0	*	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.0	.1	.2	.2	.0	*	.0	.2	1.4	
1/2<1	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	4-10	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	11-21	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	22+	.2	.0	.0	.0	.0	.0	.1	*	.0	.0	.3	
	TOT %	.6	.0	.0	.0	.2	.2	.1	*	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.4	
	11-21	.0	.0	.0	.1	.1	.0	.0	.4	.0	.0	.3	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.2	.3	.0	.1	.4	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.1	.6	.3	.2	.3	.0	.0	1.5	
	11-21	.6	*	.0	.1	.6	.3	.2	.2	.0	.0	2.0	
	22+	.2	.1	.0	.0	.0	.0	.0	*	.0	.0	.3	
	TOT %	.7	.1	.0	.2	1.2	.6	.3	.5	.0	.3	4.0	
5<10	0-3	.1	.0	.0	.0	.1	.1	.1	*	.0	3.1	3.5	
	4-10	1.6	.3	.1	.2	1.0	.9	.6	1.0	.0	.0	5.7	
	11-21	4.0	.2	.0	.2	1.8	1.0	.3	1.7	.0	.0	9.5	
	22+	3.0	*	.1	.2	.3	.1	.1	.6	.0	.0	4.6	
	TOT %	8.8	.5	.2	.5	3.4	2.1	1.3	3.3	.0	3.1	23.4	
10+	0-3	.6	.2	.1	.1	*	.1	.3	.3	.0	6.3	7.8	
	4-10	6.4	.8	.2	.4	3.2	2.4	2.8	9.0	.0	.0	21.2	
	11-21	17.2	1.2	.3	.3	2.2	.7	.9	4.3	.0	.0	27.3	
	22+	9.6	.3	.0	*	.3	.3	.3	1.7	.0	.0	12.7	
	TOT %	33.8	2.4	.6	1.0	6.0	3.5	4.1	11.4	.0	6.3	69.0	
TOT OBS													1100
TOT PCT		44.7	3.0	.8	2.0	11.3	6.6	6.0	15.7	.0	9.8	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1884-1973

MAY

AREA 0038 CAPE BLANCO
43.0N 124.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	1.3	1.7	7.1	8.3	17.5	5.0	.4	.8	.8	43.8	56.3	240
06009	3.0	.0	4.0	11.4	14.4	14.9	4.5	.5	.0	.0	52.7	47.3	201
12015	3.9	1.1	1.1	9.4	15.6	19.4	5.0	1.1	1.1	.0	57.8	42.2	180
18021	3.4	1.0	4.3	9.2	15.9	18.4	2.4	1.4	.0	.5	56.5	43.5	207
TOT	22	7	23	76	110	145	35	7	4	3	432	396	828
PCT	2.7	.8	2.8	9.2	13.3	17.5	4.2	.8	.5	.4	52.2	47.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	1.6	.6	4.4	20.4	71.1	318
06009	.0	1.5	1.9	3.7	25.3	67.7	269
12015	1.4	1.8	2.2	2.9	25.3	66.4	277
18021	1.8	.4	1.1	4.4	24.9	67.4	273
TOT	15	15	16	44	271	776	1137
PCT	1.3	1.3	1.4	3.9	23.8	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	4.7	14.5	31.9	53.6	235
06009	3.0	7.6	20.7	32.8	46.5	198
12015	4.0	6.8	20.5	39.8	39.8	176
18021	3.5	8.9	20.3	38.1	41.6	202
TOT	22	36	152	287	372	811
PCT	2.7	6.9	18.7	35.4	45.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
65/69	.2	.0	.0	.0	.0	.0	.0	.2	2	.3
60/64	.0	.2	.0	.2	2.3	1.3	.5	.5	30	4.9
55/59	.0	.0	.2	.8	2.3	8.3	10.2	3.9	198	25.6
50/54	.0	.0	.0	.5	5.2	10.7	28.2	14.3	363	58.8
45/49	.0	.0	.0	.0	.6	2.9	4.2	2.4	63	10.2
TOTAL	1	1	1	9	64	143	267	131	617	100.0
PCT	.2	.2	.2	1.5	10.4	23.2	43.3	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
65/69	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0
60/64	2.1	.2	.9	.1	.4	.1	.4	1.2	.0	.2
55/59	12.4	.9	.1	.4	3.7	2.2	1.4	3.1	.0	1.3
50/54	28.6	2.1	.4	1.4	6.8	3.7	3.6	10.1	.0	2.1
45/49	4.3	.2	.2	.3	.6	.2	1.2	3.0	.0	.2
TOTAL	47.5	3.4	1.1	2.3	11.6	6.2	6.6	17.6	.0	3.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	64	62	54	49	43	41	54.3	348
06009	60	58	57	52	47	46	45	52.0	285
12015	72	57	56	51	47	45	41	51.4	301
18021	65	64	61	54	49	46	41	53.9	291
TOT	72	63	60	53	48	45	41	53.0	1225

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	15.5	29.8	36.5	16.6	80	181		
06009	.0	.0	5.3	24.0	46.0	24.7	84	130		
12015	.0	1.4	4.9	16.7	47.2	29.9	85	144		
18021	.6	3.8	14.0	19.7	45.9	15.9	81	157		
TOT	1	11	65	145	275	135	82	632		

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1884-1973

MAY

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43.0N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
11/13	.0	.0	.0	.1	.2	.4	.1	.0	8	.0	.8
9/10	.0	.0	.0	.2	.4	.6	.0	.0	12	.0	1.2
7/8	.0	.0	.0	.4	1.2	.9	.0	.0	25	.0	2.5
6	.0	.0	.0	.9	1.1	.4	.0	.0	24	.1	2.4
5	.0	.0	.1	2.8	1.9	.3	.0	.0	49	.2	4.9
4	.0	.1	.6	2.1	1.5	.1	.0	.0	42	.4	4.0
3	.0	.0	1.5	3.2	1.8	.0	.0	.0	62	.3	6.1
2	.0	.3	3.2	3.6	.8	.0	.0	.0	96	.8	9.1
1	.0	.0	5.7	6.1	.9	.0	.0	.0	123	1.0	11.7
0	.0	.3	9.1	5.5	.3	.0	.0	.0	147	1.2	14.0
-1	.0	.3	5.8	4.9	.1	.0	.0	.0	109	.5	10.8
-2	.0	1.2	7.7	2.2	.0	.0	.0	.0	107	.4	10.7
-3	.0	.6	3.6	2.4	.1	.0	.0	.0	65	.3	6.4
-4	.3	.6	2.6	.6	.1	.0	.0	.0	41	.1	4.2
-5	.0	.6	1.9	.1	.2	.0	.0	.0	27	.1	2.7
-6	.0	.6	.3	.1	.0	.0	.0	.0	10	.0	1.0
-7/-8	.0	.4	.1	.0	.0	.0	.0	.0	5	.0	.5
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.0	.4	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	3	58	407	359	103	26	3	1	962	5.4	90.8
PCT	.3	6.0	42.3	37.3	10.7	2.9	.3	.1	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.6	.2	.0	.0	.0	3.3	.0	.2	.0	.0	.0	.0	.2
1-2	.2	3.4	2.8	.0	.0	.0	6.3	.0	.3	.1	.0	.0	.0	.3
3-4	.0	2.5	7.3	1.1	.0	.0	10.9	.0	.0	.1	.2	.0	.0	.3
5-6	.0	.5	4.6	1.9	.0	.0	7.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.5	5.4	2.6	.2	.0	8.7	.0	.0	.*	.2	.0	.0	.2
8-9	.0	.2	1.1	2.1	.3	.0	3.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	1.7	2.0	.2	.0	4.1	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	1.0	.0	.0	1.2	.0	.0	.0	.*	.0	.0	.*
13-16	.0	.0	.2	1.4	.3	.0	2.0	.0	.0	.0	.*	.0	.0	.*
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.0	23.5	12.2	1.0	.0	47.4	.0	.4	.7	.7	.0	.0	1.8

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.3	.*	.0	.0	.0	.4
1-2	.0	.2	.5	.0	.0	.0	.7	.0	.*	.2	.0	.0	.0	.2
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.*	.2	.0	.0	.0	.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.*	.0	.0	.*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.8	.2	.0	.0	1.5	.0	.7	.4	.*	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0038 CAPE BLANCO
43.0N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.1	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	.7	.1	.0	.0	.0	1.3	.0	.6	.3	.0	.0	.0	.8
3-4	.0	1.1	1.8	.1	.0	.0	3.0	.0	.3	.4	.0	.0	.0	.7
5-6	.0	.1	.8	.3	.0	.0	1.3	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.5	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	3.9	1.1	.0	.0	8.6	.0	2.6	1.1	.1	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.3	.0	.0	.0	.0	1.4	.2	3.6	.2	.0	.0	.0	3.4	
1-2	.0	1.0	.5	.0	.0	.0	1.5	.0	2.3	1.2	.0	.0	.0	3.4	
3-4	.2	.9	.4	.1	.0	.0	1.6	.0	1.4	2.1	1.0	.0	.0	4.6	
5-6	.0	.0	.1	.1	.0	.0	.3	.0	.2	2.4	.0	.0	.0	2.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.3	.0	.0	1.3	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.3	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.2	1.2	.3	.0	.0	4.9	.2	7.7	6.8	2.3	.2	.0	17.1	86.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.9	11.5	.5	.0	.0	.0	26.9	
1-2	.2	8.3	6.1	.0	.0	.0	14.6	
3-4	.2	6.4	12.5	2.6	.0	.0	21.7	
5-6	.0	.9	8.9	2.4	.0	.0	12.2	
7	.0	.7	6.8	3.3	.2	.0	11.1	
8-9	.0	.2	1.4	2.6	.3	.0	4.5	
10-11	.0	.2	1.9	2.8	.2	.0	5.0	
12	.0	.0	.2	1.2	.0	.0	1.4	
13-16	.0	.0	.2	1.7	.3	.0	2.4	
17-19	.0	.2	.0	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	28.3	38.4	16.8	1.2	.0	100.0	576

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	6.0	13.2	8.5	4.6	1.3	1.4	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	312	4
6-7	.1	2.1	6.0	8.5	6.7	2.8	1.3	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	244	6
8-9	.0	1.3	1.9	3.2	3.1	1.1	2.4	1.1	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	132	7
10-11	.0	2.1	1.3	.9	.9	.8	.4	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	61	6
12-13	.0	.0	.8	.2	.1	.1	.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
>13	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDEX	3.2	.7	.8	.9	.9	.8	1.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	4
TOTAL	35	104	204	190	139	60	59	23	27	4	4	0	0	0	0	0	0	0	0	849	5
PCT	4.1	12.2	24.0	22.4	16.4	7.1	6.9	2.7	3.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1890-1973

JUNE

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	1.3	.3	1.2	.0	.0	.0	.0	2.5	.2	.0	6.1	.3	3.6	.2	87.1	
NE	.0	1.5	3.3	.0	.0	.0	.0	6.8	6.0	.0	9.0	1.5	1.5	.0	75.2	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.0	.0	.0	.0	76.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	17.0	.0	.0	.0	81.1	
S	10.6	2.4	9.4	.0	.0	.0	.0	22.4	6.7	.0	3.9	.0	3.3	.0	63.6	
SW	5.6	3.5	6.5	.0	.0	.0	.0	15.6	7.8	.0	9.5	.0	.4	.0	66.7	
W	2.9	.0	2.5	.0	.0	.0	.0	3.7	2.9	.0	11.2	.0	2.3	.0	79.8	
NW	.4	1.2	4.6	.0	.0	.0	.0	6.3	1.2	.0	5.9	.0	3.0	.0	83.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	4.9	.0	.0	.0	.0	4.9	2.4	.0	7.3	.0	.0	.0	85.4	
TOT PCT	2.2	.8	3.2	.0	.0	.0	.0	6.0	1.9	.0	6.8	.2	2.9	.1	82.2	
TOT OBS:	970															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.7	.0	1.5	.0	.0	.0	.0	1.9	1.5	.0	7.8	.0	4.5	.0	84.3
06009	3.3	.4	3.7	.0	.0	.0	.0	7.4	2.9	.0	5.0	.0	2.9	.0	81.8
12015	3.3	1.4	5.1	.0	.0	.0	.0	9.8	2.8	.0	8.4	.5	2.3	.5	75.8
18021	1.9	1.5	3.0	.0	.0	.0	.0	6.0	1.5	.0	7.1	.7	1.5	.0	83.1
TOT PCT TOT OBS:	2.2 992	.8	3.2	.0	.0	.0	.0	6.0	2.1	.0	7.1	.3	2.8	.1	81.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	11.7	22.5	10.3	2.0	.0		47.7	16.7		44.3	43.2	50.0	48.5	47.2	47.8	52.8	42.0
NE	.2	1.4	1.3	.5	.0	.0		3.4	12.7		1.3	3.6	2.5	3.5	4.6	6.7	4.8	2.9
E	.1	.1	.3	.0	.0	.0		.5	11.6		.3	.0	.4	2.0	.2	.0	1.4	.0
SE	.4	1.0	.6	.8	.0	.0		2.0	8.3		1.4	3.1	1.8	2.0	1.7	4.5	2.1	1.9
S	.6	4.7	3.8	1.0	.0	.0		10.0	12.2		11.1	5.2	12.1	9.0	10.4	13.1	6.7	10.3
SW	.3	3.6	1.6	.3	.0	.0		5.8	10.7		9.2	2.1	5.0	3.0	6.3	3.4	4.4	5.1
W	.7	4.6	1.0	.2	.0	.0		6.6	8.5		8.3	16.7	8.0	7.0	4.0	3.7	4.3	6.1
NW	1.1	8.1	8.5	1.6	.3	.0		19.5	12.5		21.0	19.8	14.4	21.0	19.3	17.9	19.5	30.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		3.1	6.3	5.8	4.0	6.3	3.0	4.1	1.3
TOT OBS	103	406	456	160	27	0	1152		13.4		261	48	224	50	207	67	217	78
TOT PCT	8.9	35.2	39.6	12.9	2.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	5.3	20.4	16.6	5.2	.2	17.7	16.7	44.1	49.7	47.4	49.9	
NE	.8	1.3	1.1	.1	.0	3.4	12.7	1.7	2.6	5.1	4.3	
E	.1	.4	.1	.0	.0	.5	11.6	.2	.7	.2	1.0	
SE	.9	1.0	.1	.0	.0	2.0	8.3	1.7	1.8	2.4	2.0	
S	2.3	5.1	2.3	.4	.0	10.0	12.2	10.2	11.5	11.0	7.6	
SW	1.5	3.3	.8	.1	.0	5.8	10.7	8.1	4.7	5.6	4.6	
W	2.5	3.8	.1	.2	.0	6.6	8.5	9.6	7.8	3.9	4.7	
NW	4.6	10.4	3.6	.9	.0	19.5	12.5	20.8	15.6	19.0	22.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.4					4.4	.0	3.6	5.5	5.5	3.4	
TOT OBS	258	527	285	79	3	1152	13.4	309	274	274	295	
TOT PCT	22.4	45.7	24.7	6.9	.3		100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1890-1973

JUNE

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.6	2.3	33.0	40.8	16.2	4.2	.0	14.8	100.0	309
0600	5.3	5.5	32.8	40.1	14.2	1.8	.0	13.2	100.0	274
1200	5.3	6.9	36.1	38.7	11.7	1.1	.0	12.3	100.0	274
1800	3.4	3.7	39.0	38.6	13.2	2.0	.0	13.3	100.0	295
TOT	31	52	406	456	160	27	0	13.4		1132
PCT	4.4	4.5	35.2	39.6	13.9	2.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	15.9	7.2	11.8	15.9		4.6
NE	.7	.2	.9	1.6		5.9
E	.5	.1	.0	.1		1.9
SE	.3	.0	.5	.8		6.1
S	.4	.7	1.9	6.7		7.0
SW	.3	.6	1.7	3.1		6.6
W	1.0	1.2	1.7	2.0		5.5
NW	3.9	3.2	4.7	6.1		5.1
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	1.1	3.2	745	7.1
TOT OBS	173	98	181	293		5.3
TOT PCT	23.2	13.2	24.3	39.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	1.1	.2	.9	3.0	7.7	8.0	1.5	.1	.4	.5	27.2	
NE	.1	.0	.1	.3	.8	1.0	.1	.0	.0	.0	1.1	
E	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
SE	.1	.0	.0	.1	.4	.2	.0	.0	.1	.0	.5	
S	.5	.3	.6	1.4	2.2	2.4	.6	.1	.0	.0	1.8	
SW	.4	.4	.3	.4	.9	1.0	.4	.0	.1	.3	1.5	
W	.1	.0	.4	.4	1.3	.5	.3	.2	.1	.1	2.6	
NW	.4	.6	1.1	1.2	3.6	2.2	.3	.4	.3	.0	8.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.3	.7	1.2	.7	.4	.0	.1	.0	.9	
TOT OBS	23	9	20	95	135	119	27	7	8	7	335	745
TOT PCT	3.1	1.2	2.7	7.4	18.1	16.0	3.6	.9	1.1	.9	45.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)					= OR >5000	= OR >0
				= OR >1	= OR >1/2	= OR >1/4	= OR >5000	= OR >0		
= OR >6500	1.4	2.0	2.0	2.0	2.0	2.0	2.1	2.1		
= OR >5000	2.1	2.8	2.9	2.9	2.9	2.9	3.0	3.0		
= OR >3500	4.3	6.2	6.6	6.6	6.6	6.6	6.7	6.7		
= OR >2000	13.9	21.0	22.0	22.3	22.4	22.4	22.6	22.6		
= OR >1000	27.4	38.5	40.0	40.4	40.6	40.6	40.7	40.7		
= OR >600	31.4	45.1	47.4	47.9	48.2	48.2	48.3	48.3		
= OR >300	32.5	47.5	50.1	50.8	51.0	51.0	51.2	51.2		
= OR >150	32.9	48.2	51.0	51.7	52.1	52.1	52.4	52.4		
= OR >0	32.9	48.8	52.4	53.5	54.3	54.5	55.2	55.5		
TOTAL	251	372	399	408	414	415	421	423		

TOTAL NUMBER OF OBS: 762

PCT FREQ NM <5/8: 44.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.0	9.1	10.2	7.2	5.3	4.8	7.0	7.9	32.7	2.9	795

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1890-1973

TABLE 8

AREA 0038 CAPE BLANCO
42.9N 124.9WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	NO PCP	.3	.1	.0	.0	.1	.2	.3	.3	.0	.0	1.3	
	TOT %	.4	.2	.0	.0	.2	.2	.3	.3	.0	.1	1.7	
1/2<1	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.8	.0	.1	.0	.0	.0	.1	.3	.0	.0	1.3	
	TOT %	.9	.0	.1	.0	.0	.1	.1	.3	.0	.0	1.5	
1<2	PCP	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	NO PCP	.5	.1	.1	.1	.0	.1	.0	.1	.0	.1	.9	
	TOT %	.5	.1	.1	.1	.4	.2	.0	.1	.0	.1	1.4	
2<5	PCP	.2	.1	.0	.0	.5	.1	.0	.1	.0	.0	.9	
	NO PCP	1.4	.2	.0	.1	.3	.3	.5	.0	.1	.1	2.9	
	TOT %	1.6	.3	.0	.1	.7	.4	.5	.1	.1	.1	3.8	
5<10	PCP	.9	.1	.0	.0	.5	.4	.2	.6	.0	.1	2.8	
	NO PCP	11.7	.4	.1	.2	1.5	1.0	1.1	4.0	.0	1.2	21.4	
	TOT %	12.6	.5	.1	.2	2.0	1.4	1.3	4.6	.0	1.3	24.1	
10+	PCP	.1	.0	.0	.0	.4	.2	.0	.4	.0	.0	1.1	
	NO PCP	34.7	2.4	.4	1.1	4.7	3.6	4.2	12.6	.0	2.6	66.3	
	TOT %	34.8	2.4	.4	1.1	5.1	3.8	4.2	13.0	.0	2.6	67.4	
TOT OBS													969
TOT PCT		50.8	3.4	.6	1.4	8.4	5.9	6.2	18.9	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.0	.0	.1	.2	.2	.2	.0	.0	.7	
	11-21	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.7	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.1	.0	.1	.3	.2	.2	.3	.0	.1	1.7	
1/2<1	0-3	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	4-10	.3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.5	
	11-21	.3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.6	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	1.0	.0	.1	.0	.0	.1	.1	.3	.0	.0	1.6	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.0	.0	.1	.2	.3	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.4	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.1	.0	.0	.4	.2	.3	.0	.0	.1	1.4	
2<5	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	4-10	.6	.1	.0	.1	.2	.0	.2	.2	.0	.0	1.3	
	11-21	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.3	
	22+	.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8	
	TOT %	1.4	.3	.0	.1	.9	.1	.3	.7	.0	.1	3.9	
5<10	0-3	.3	.0	.0	.0	.0	.1	.0	.1	.0	1.2	1.8	
	4-10	2.0	.0	.0	.1	1.0	.7	1.0	2.1	.0	.0	6.9	
	11-21	5.1	.3	.1	.2	1.1	.4	.2	1.6	.0	.0	9.1	
	22+	4.2	.1	.0	.0	.0	.1	.1	.7	.0	.0	5.2	
	TOT %	11.6	.4	.1	.3	2.1	1.4	1.4	4.5	.0	1.2	23.0	
10+	0-3	.7	.1	.0	.1	.5	.2	.5	.6	.0	2.9	5.6	
	4-10	8.9	1.0	.1	.6	3.2	2.2	2.6	5.6	.0	.0	24.6	
	11-21	17.5	1.0	.3	.3	1.3	1.0	.6	6.1	.0	.0	28.0	
	22+	8.0	.3	.0	.0	.5	.2	.2	1.2	.0	.0	10.4	
	TOT %	35.0	2.4	.4	1.1	5.5	3.6	4.1	13.4	.0	2.9	68.4	
TOT OBS													1073
TOT PCT		49.7	3.4	.6	1.7	9.2	5.5	6.2	19.3	.0	4.4	100.0	

JUNE

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1890-1973AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.9	.0	2.4	8.0	14.6	12.3	4.2	.3	1.4	1.9	47.2	52.8	212
06009	3.5	2.0	3.5	7.5	17.0	16.5	2.5	1.0	1.0	1.0	55.5	44.5	200
12015	4.8	1.8	1.8	5.5	27.3	19.4	3.6	1.2	1.2	1.2	67.9	32.1	165
18021	2.5	1.0	3.5	8.4	14.4	14.9	4.0	1.0	.5	.0	50.0	50.0	202
TOT	24	9	22	58	139	121	28	7	8	8	424	355	779
PCT	3.1	1.2	2.8	7.4	17.8	15.5	3.6	.9	1.0	1.0	54.4	45.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.4	1.4	1.0	2.7	22.7	70.8	295
06009	1.5	.4	1.1	5.2	23.9	67.9	208
12015	2.7	2.0	2.4	3.9	24.3	64.7	255
18021	1.8	2.5	1.4	3.9	22.9	67.4	279
TOT	20	17	16	43	257	744	1097
PCT	1.8	1.5	1.5	3.9	23.4	67.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
00003	1.9	5.3	15.9	34.1	50.0	208
06009	3.6	9.2	21.4	35.2	43.4	196
12015	4.8	10.3	18.2	51.5	30.3	165
18021	2.6	7.8	17.6	35.2	47.2	193
TOT	24	61	139	293	330	762
PCT	3.1	8.0	18.2	38.5	43.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
65/69	.0	.0	.0	.1	.5	.3	.0	.0	11	1.5
60/64	.0	.0	.0	.5	3.8	5.1	5.8	3.4	138	18.5
55/59	.0	.0	.0	.1	2.9	16.1	25.1	11.8	418	56.0
50/54	.0	.0	.0	.1	.1	1.5	11.7	9.4	170	22.8
45/49	.0	.0	.0	.0	.0	.0	.4	.7	8	1.1
TOTAL	0	0	0	7	56	173	322	188	746	100.0
PCT	.0	.0	.0	.9	7.5	23.2	43.2	25.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
65/69	.7	.0	.1	.0	.1	.0	.3	.2	.0	.0
60/64	7.4	.7	.0	.5	1.4	1.1	1.6	5.1	.0	.7
55/59	28.3	2.3	.1	.7	5.2	2.9	4.3	9.8	.0	2.3
50/54	13.2	.7	.0	.3	1.8	1.1	1.0	3.6	.0	1.1
45/49	.7	.1	.0	.0	.0	.0	.0	.1	.0	.1
TOTAL	50.4	3.8	.3	1.5	8.6	5.1	7.1	19.0	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	68	64	58	52	50	48	57.9	307
06009	70	63	60	56	51	50	45	55.6	281
12015	63	62	60	55	50	48	46	55.0	283
18021	67	65	63	57	52	49	48	57.6	298
TOT	70	66	62	56	51	49	45	56.6	1169

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	11.0	25.4	45.0	18.2	82	209		
06009	.0	.0	3.1	16.8	47.1	33.0	87	191		
12015	.0	1.3	3.2	16.7	42.9	35.9	86	156		
18021	.0	2.0	10.8	32.0	37.4	17.7	81	203		
TOT	0	7	36	176	327	193	84	739		

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1890-1973

JUNE

AREA 0038, CAPE BLANCO
42.9N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	WQ FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.9	.0	.2	13	.0	1.4
9/10	.0	.0	.1	.9	.7	.3	.1	19	.2	1.9
7/8	.0	.0	.4	2.3	2.2	.4	.0	49	.1	5.3
6	.0	.0	1.5	1.2	1.7	.2	.0	42	.3	4.3
5	.0	.1	2.1	2.8	1.2	.1	.0	57	.3	5.9
4	.0	.2	3.1	3.2	1.1	.1	.0	70	.9	6.8
3	.0	.8	3.6	3.5	.8	.0	.0	79	.4	8.3
2	.1	1.7	4.8	3.4	1.5	.0	.0	123	1.4	12.1
1	.1	1.7	3.7	3.6	.4	.0	.0	87	.7	8.9
0	.0	1.4	5.3	3.3	.6	.0	.0	96	1.0	9.6
-1	.0	.8	4.4	5.1	.3	.0	.0	96	.4	10.1
-2	.1	.8	3.6	3.2	.0	.0	.0	70	.3	7.4
-3	.1	.9	2.5	1.0	.0	.0	.0	41	.3	4.2
-4	.0	.8	1.4	.4	.1	.0	.0	25	.1	2.6
-5	.1	.3	1.5	.4	.0	.0	.0	22	.1	2.3
-6	.0	.1	.4	.3	.0	.0	.0	8	.1	.8
-7/-8	.1	.0	.3	.1	.0	.0	.0	3	.0	.6
-9/-10	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	1	.1	.0
-14/-16	.2	.1	.0	.0	.0	.0	.0	3	.2	.1
TOTAL	8	88	336	337	104	11	4	908	65	843
PCT	.9	9.7	39.2	37.1	11.5	1.2	.4	100.0	7.2	92.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	2.0	.0	.0	.0	.0	2.7	.0	.1	.0	.0	.0	.0	.1
1-2	.0	5.8	7.7	.0	.0	.0	13.5	.0	.8	.5	.0	.0	.0	1.2
3-4	.0	3.4	8.1	1.0	.0	.0	12.4	.0	.3	.6	.3	.0	.0	1.2
5-6	.0	1.7	7.3	3.1	1.0	.0	13.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.2	2.7	2.4	.6	.0	5.8	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.8	.9	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.6	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.2	.0	.6	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	13.3	26.7	8.7	2.6	.0	51.9	.0	1.1	1.3	.4	.0	.0	2.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.5
1-2	.0	.0	.0	.0	.0	.0	.0	.1	.7	.8	.0	.0	.0	1.5
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.2	.0	.0	.0	.4	.1	1.1	.8	.1	.0	.0	2.0

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.9	.0	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6	
1-2	.4	1.7	.9	.0	.0	.0	3.0	.4	1.6	.9	.0	.0	.0	2.9	
3-4	.0	.8	.6	.2	.0	.0	1.5	.0	.8	.3	.0	.0	.0	1.1	
5-6	.0	.4	.6	.2	.0	.0	1.2	.0	.2	.6	.2	.0	.0	1.0	
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	.1	.3	.0	.0	.3	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.8	3.0	.9	.0	.0	8.5	.4	3.4	2.2	.5	.0	.0	6.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.3	1.5	.2	.0	.0	.0	1.9	
1-2	.2	.8	.0	.0	.0	.0	1.0	.1	3.8	2.5	.0	.0	.0	6.4	
3-4	.0	1.0	.4	.0	.0	.0	1.3	.0	.9	3.8	.0	.0	.0	4.7	
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.4	2.1	.2	.1	.0	2.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.7	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.2	.3	.3	.0	.0	.8	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.5	.6	.0	.0	.0	4.4	.3	6.9	9.3	.8	.1	.0	17.4	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	6.7	.2	.0	.0	.0	14.8	
1-2	1.4	15.2	13.2	.0	.0	.0	29.8	
3-4	.0	7.3	13.8	1.4	.0	.0	22.5	
5-6	.0	3.2	10.8	3.7	1.0	.0	18.7	
7	.0	.2	3.2	3.0	.6	.0	7.1	
8-9	.0	.2	1.4	1.4	.0	.0	3.0	
10-11	.0	.2	.2	.8	.2	.0	1.4	
12	.0	.0	.4	.8	.2	.0	1.4	
13-16	.0	.2	.2	.0	.6	.0	1.0	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.3	33.3	43.6	11.2	2.6	.0	100.0	493

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	9.5	9.6	8.8	2.8	1.2	.8	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	4
6-7	.1	2.5	7.8	7.3	4.5	1.8	2.3	1.3	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	223	6
8-9	.0	.9	2.8	6.7	4.3	2.2	1.4	.6	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	194	6
10-11	.0	.8	1.4	.8	.4	.3	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	6
12-13	.0	.0	.6	.9	.3	.5	.4	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	7
>13	.0	.0	.0	.0	.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	1.6	.9	1.6	.8	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	4
TOTAL	28	112	184	195	103	53	47	21	21	6	2	3	0	0	0	0	0	0	0	772	5
PCT	3.6	14.5	23.8	25.3	13.3	6.9	6.1	2.7	2.7	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1888-1973

JULY

AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.2	2.1	.0	.0	.0	.0	2.2	.7	.0	7.8	.9	6.5	.3	81.5
NE	1.2	.0	.6	.0	.0	.0	.0	1.8	2.3	.0	9.9	.0	1.2	2.3	82.5
E	5.9	.0	.0	.0	.0	.0	.0	5.9	5.9	.0	23.5	.0	.0	.0	66.7
SE	25.0	.0	43.8	.0	.0	.0	.0	43.8	3.1	.0	14.1	1.6	.0	.0	37.5
S	9.4	1.3	8.4	.0	.0	.0	.0	13.3	.0	1.3	19.4	1.0	2.6	.0	62.5
SW	6.3	.0	9.0	.0	.0	.0	.0	13.5	.0	.0	18.0	.0	3.6	.0	64.9
W	.0	2.8	4.3	.0	.0	.0	.0	7.1	.0	.0	4.3	.0	.0	.0	88.7
NW	.6	.0	2.1	.0	.0	.0	.0	2.7	.0	.0	12.3	1.2	4.7	.2	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	8.1	.0	.0	.0	.0	8.1	.0	.0	21.6	.0	5.4	.0	64.9
TOT PCT	1.5	.3	3.7	.0	.0	.0	.0	4.6	.6	.1	10.5	.8	5.1	.3	77.9
TOT OBS:	978														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	.4	.0	1.4	.0	.0	.0	.0	1.8	.0	.0	12.1	.7	5.7	.7	79.1
0600Z	1.0	.5	2.4	.0	.0	.0	.0	3.9	.5	.0	7.7	1.0	2.4	.0	84.3
1201Z	3.0	.9	6.4	.0	.0	.0	.0	8.1	1.3	.4	9.0	1.3	4.7	.0	75.2
1802Z	1.8	.0	4.4	.0	.0	.0	.0	4.8	.7	.0	12.8	.4	6.6	.4	74.4
TOT PCT	1.5	.3	3.6	.0	.0	.0	.0	4.5	.6	.1	10.6	.8	5.0	.3	78.0
TOT OBS:	996														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	12.8	27.4	14.1	1.9	.0		57.6	17.1	58.4	58.2	57.2	47.6	56.9	55.1	59.3	59.7	
NE	.2	1.6	1.9	.8	.3	.0		4.4	15.2	1.8	3.7	3.4	3.0	6.4	9.6	4.6	6.3	
E	.3	.3	.1	.1	.0	.0		.8	7.8	.6	1.6	.5	.0	.9	.7	.8	1.5	
SE	.2	.8	.3	.2	.0	.0		1.5	9.4	.9	.0	.7	.0	1.7	2.7	2.7	2.2	
S	.8	4.3	2.1	.2	.0	.0		7.5	8.3	6.9	4.1	8.2	15.5	7.5	6.8	7.1	7.5	
SW	.3	1.7	.7	.0	.0	.0		2.9	8.7	2.8	.8	3.5	3.6	3.6	1.7	2.0	4.5	
W	.9	2.1	.6	.0	.0	.0		3.7	6.9	5.2	4.1	3.4	2.4	2.1	4.5	3.3	4.1	
NW	.8	8.3	6.5	2.2	.3	.0		18.1	12.9	21.2	25.8	17.8	25.6	15.8	17.5	15.0	14.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.7							3.7	.0	2.2	1.6	5.2	2.4	5.2	1.4	5.2	.0	
TOT OBS	100	366	451	202	29	0	1148		14.2	270	61	192	42	211	73	232	67	
TOT PCT	8.7	31.9	39.3	17.6	2.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	6.6	21.8	22.8	6.1	.3		57.6	17.1	58.4	55.4	56.4	59.4
NE	.9	1.6	1.3	.5	.0		4.4	15.2	2.1	3.3	7.2	5.0
E	.6	.1	.0	.1	.0		.8	7.8	.8	.4	.9	.9
SE	.7	.6	.1	.1	.0		1.5	9.4	.8	.5	1.9	2.6
S	3.4	3.7	.3	.1	.0		7.5	8.3	6.3	9.6	7.3	7.2
SW	1.3	1.4	.2	.0	.0		2.9	8.7	2.4	3.5	3.1	2.6
W	1.9	1.8	.0	.0	.0		3.7	6.9	5.0	3.2	2.7	3.3
NW	4.0	9.2	3.6	1.3	.0		18.1	12.9	22.1	19.2	16.2	14.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	2.1	4.7	4.2	4.0
TOT OBS	264	461	326	93	4	1148		14.2	331	234	284	299
TOT PCT	23.0	40.2	28.4	8.1	.3		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1988-1973AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			+8+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.1	4.5	32.6	39.3	18.1	3.3	.0	14.8	100.0	331
0600Z	4.7	6.4	35.0	33.3	19.2	1.3	.0	13.2	100.0	234
1200Z	4.2	5.6	32.0	40.5	15.5	2.1	.0	13.8	100.0	284
1800Z	4.0	4.0	28.4	42.8	17.7	3.0	.0	14.6	100.0	299
TOT	42	58	366	451	202	29	0	14.2		1148
PCT	3.7	5.1	31.9	39.3	17.6	2.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	26.0	4.2	10.2	19.1		4.1
NE	1.1	.1	1.2	2.6		3.9
E	.1	.0	.3	.2		6.0
SE	.2	.0	.1	1.0		6.5
S	1.5	.9	1.2	2.9		5.5
SW	.1	.3	1.1	1.2		6.3
W	.6	.1	1.3	1.0		5.8
NW	6.0	.9	5.0	4.8		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.1	.4	3.0		6.0
TOT OBS	266	49	151	239	725	4.6
TOT PCT	36.7	6.8	20.8	33.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
2.5	.1	2.2	5.4	10.4	5.3	.9	.1	.0	.3	32.2	
.2	.0	.2	.4	2.1	.4	.3	.0	.0	.0	1.2	
.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.1	
.4	.0	.0	.3	.1	.3	.0	.0	.0	.0	.2	
.5	.1	.3	.3	.7	1.4	.1	.0	.0	.0	3.0	
.3	.2	.2	.4	.4	.2	.1	.0	.0	.0	.8	
.1	.1	.0	.1	.6	.9	.1	.1	.0	.0	1.0	
.9	.0	1.1	1.4	3.6	1.8	.1	.1	.0	.1	7.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.1	.0	.4	.0	.8	.6	.1	.0	.0	.0	1.7	
4.4	.4	3.3	6.2	13.6	7.9	1.4	.3	.0	.3	34.7	725
6.1	.6	4.6	8.6	18.8	10.9	1.9	.4	.0	.4	47.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.4	.5	.5	.5	.5	.5	.5	.5
>5000	.7	.8	1.0	1.0	1.0	1.0	1.0	1.0
>3500	2.3	2.7	2.9	2.9	2.9	2.9	2.9	2.9
>2000	10.1	13.3	13.7	13.7	13.7	13.7	13.7	13.7
>1000	21.3	30.7	31.9	32.3	32.3	32.3	32.3	32.3
>600	25.1	38.2	40.4	40.9	40.9	40.9	40.9	40.9
>300	26.4	41.2	44.4	45.2	45.2	45.4	45.4	45.4
>150	26.5	41.6	44.8	45.7	45.7	45.8	45.9	45.9
>0	26.5	42.0	45.4	47.1	48.8	50.0	51.4	52.2
TOTAL	195	309	334	347	359	368	378	384

TOTAL NUMBER OF OBS: 736

PCT FREQ NM <5/8: 47.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
28.8	10.4	6.4	4.1	2.2	3.2	5.1	9.9	29.9	5.1	786

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1968-1973

JULY

AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	NO PCP	1.9	.0	.0	.0	.9	.4	.0	.4	.0	.6	4.2	
	TOT %	1.9	.0	.0	.0	.9	.4	.0	.4	.0	.8	4.4	
1/2<1	PCP	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.4	
	NO PCP	.2	.2	.1	.1	.2	.0	.0	.3	.0	.1	1.1	
	TOT %	.3	.2	.1	.3	.2	.0	.1	.3	.0	.1	1.5	
1<2	PCP	.2	.0	.0	.1	.0	.0	.0	.2	.0	.0	.4	
	NO PCP	.9	.0	.0	.1	.0	.0	.1	.4	.0	.0	1.3	
	TOT %	1.0	.0	.0	.2	.0	.0	.1	.6	.0	.0	1.9	
2<5	PCP	.3	.1	.1	.4	.4	.2	.1	.3	.0	.0	1.4	
	NO PCP	2.0	.1	.0	.0	.4	.2	.7	.0	.2	.3	3.4	
	TOT %	2.3	.1	.1	.4	.8	.4	.2	1.0	.0	.2	5.4	
5<10	PCP	.5	.0	.0	.1	.2	.1	.0	.0	.0	.1	.9	
	NO PCP	14.3	1.9	.4	.3	2.0	.6	.3	4.2	.0	.3	24.7	
	TOT %	14.8	1.9	.4	.4	2.2	.7	.3	4.2	.0	.6	25.6	
10+	PCP	.3	.0	.0	.0	.5	.1	.1	.0	.0	.0	1.0	
	NO PCP	37.5	2.2	.4	.4	3.4	1.2	2.6	10.3	.0	2.0	60.0	
	TOT %	37.8	2.2	.4	.4	3.9	1.4	2.7	10.4	.0	2.0	61.1	
TOT OBS													
TOT PCT													
		58.1	4.4	.9	1.6	7.9	2.8	3.6	16.8	.0	3.8	100.0	976

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.4	.0	.0	.0	.6	.3	.0	.2	.0	.0	1.3	
	11-21	1.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.4	
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	1.8	.0	.0	.0	.8	.3	.0	.4	.0	.8	4.0	
1/2<1	0-3	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.4	
	4-10	.1	.1	.0	.2	.2	.0	.1	.1	.0	.0	.8	
	11-21	.3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.1	.1	.3	.2	.0	.1	.3	.0	.1	1.6	
1<2	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.3	.0	.0	.1	.0	.0	.1	.4	.0	.0	.8	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.9	.0	.0	.2	.0	.0	.1	.5	.0	.0	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.4	
	4-10	.7	.0	.0	.0	.3	.2	.1	.7	.0	.0	2.1	
	11-21	.7	.0	.0	.1	.2	.1	.0	.1	.0	.0	1.4	
	22+	.9	.0	.0	.2	.2	.0	.0	.1	.0	.0	1.4	
	TOT %	2.3	.1	.0	.4	.7	.4	.2	1.0	.0	.2	5.3	
5<10	0-3	.2	.1	.1	.0	.4	.1	.1	.1	.0	.7	1.7	
	4-10	1.9	.4	.2	.2	1.1	.4	.2	1.2	.0	.0	5.7	
	11-21	4.9	.4	.0	.1	.7	.2	.1	1.6	.0	.0	10.1	
	22+	3.7	1.0	.0	.0	.0	.0	.0	1.1	.0	.0	7.7	
	TOT %	14.7	1.9	.3	.3	2.3	.7	.4	3.9	.0	.7	25.2	
10+	0-3	.8	.1	.1	.0	.3	.0	.7	.3	.0	2.0	4.5	
	4-10	9.2	.9	.1	.3	2.2	.8	1.6	3.4	.0	.0	20.5	
	11-21	19.1	.9	.1	.0	1.2	.4	.5	4.4	.0	.0	26.7	
	22+	9.1	.1	.1	.0	.0	.0	.0	1.0	.0	.0	10.3	
	TOT %	38.2	2.1	.3	.4	3.7	1.3	2.8	11.4	.0	2.0	62.1	
TOT OBS													
TOT PCT													
		58.3	4.3	.8	1.5	7.6	2.7	3.6	17.3	.0	3.7	100.0	1066

JULY

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1888-1973AREA 0038 CAPE BLANCO
42.6N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	4.8	1.0	3.4	5.3	17.3	10.6	1.9	.0	.0	.0	44.2	55.8	208
06009	6.5	.6	4.8	7.1	11.9	7.7	.6	1.2	.0	1.2	41.7	58.3	168
12015	6.8	.0	5.6	11.8	23.0	10.6	2.5	.0	.0	.6	60.9	39.1	161
18021	6.5	.5	4.2	9.7	20.4	13.4	2.3	.5	.0	.5	57.9	42.1	216
TOT	46	4	33	63	137	81	14	3	0	4	385	308	793
PCT	6.1	.5	4.4	8.4	18.2	10.8	1.9	.4	.0	.5	51.1	48.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.2	2.3	.3	5.5	23.9	64.7	309
06009	5.3	1.3	.9	2.7	19.6	70.2	225
12015	2.7	1.5	3.4	7.2	29.7	55.5	263
18021	5.6	1.0	2.4	4.9	28.2	57.8	287
TOT	45	17	19	56	277	670	1084
PCT	4.2	1.6	1.8	5.2	25.6	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	5.0	9.9	18.3	29.7	52.0	202
06009	6.6	12.6	21.6	21.6	56.9	167
12015	6.9	12.6	27.7	35.2	37.1	159
18021	6.7	11.5	24.5	35.6	39.9	208
TOT	46	85	168	226	342	736
PCT	6.3	11.5	22.8	30.7	46.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.3	.3	.4	.0	8	1.0
65/69	.0	.0	.0	.1	.9	1.6	1.7	.9	40	5.2
60/64	.0	.0	.0	.1	2.9	10.4	12.0	5.1	234	30.5
55/59	.0	.0	.0	.0	.5	5.7	20.6	19.1	353	46.0
50/54	.0	.0	.0	.0	.0	.1	3.2	11.8	192	17.2
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	0	3	33	139	307	284	768	100.0
PCT	.0	.0	.0	.4	4.6	18.1	40.0	37.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.4	.0	.0	.0	.1	.0	.1	.3	.0	.1
65/69	3.1	.2	.0	.0	.1	.0	.1	1.4	.0	.3
60/64	16.0	.9	.4	.5	2.7	1.5	1.9	8.0	.0	.7
55/59	28.6	1.8	.2	.9	2.7	1.1	1.1	8.0	.0	1.3
50/54	10.6	.9	.1	.4	1.1	.3	.2	2.3	.0	1.0
45/49	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	58.9	2.8	.8	1.8	6.7	3.0	3.5	18.1	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	70	66	60	53	52	50	59.9	333
06009	68	66	63	57	52	50	50	57.2	239
12015	69	66	62	57	51	50	50	56.6	283
18021	73	70	66	59	52	50	49	59.0	301
TOT	74	69	65	58	52	50	49	58.3	1156

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	8.0	25.9	39.3	25.9	83	224		
06009	.0	.0	2.4	11.4	43.1	43.1	88	167		
12015	.0	.6	3.5	10.4	37.6	48.0	88	173		
18021	.0	.0	4.2	21.9	40.5	33.5	86	215		
TOT	0	3	37	142	312	285	86	779		

JULY

PERIOD: (PRIMARY) 1947-1973
(OVER-ALL) 1988-1973AREA 0038 CAPE BLANCO
42.8N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	M FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.3	.3	.2	.2	10	.1	1.0
11/13	.0	.0	.0	.7	.9	.0	.0	14	.2	1.3
9/10	.0	.2	.8	1.8	1.2	.2	.0	38	.2	4.0
7/8	.0	1.1	2.0	1.9	1.4	.1	.0	59	1.1	5.4
6	.2	1.2	2.3	1.2	.9	.0	.0	55	.7	5.4
5	.2	2.9	2.3	2.0	.3	.0	.0	72	.6	7.4
4	.6	3.2	2.8	2.0	.0	.1	.0	78	1.1	7.3
3	.6	2.4	2.0	2.2	.3	.0	.0	68	.4	7.1
2	.7	3.2	6.0	2.5	.2	.0	.0	114	1.9	10.7
1	.7	2.5	4.0	2.0	.2	.0	.0	85	.6	8.8
0	.8	3.9	3.3	1.4	.2	.0	.0	107	.9	10.9
-1	.7	2.5	4.1	1.4	.0	.0	.0	79	1.1	7.6
-2	.4	1.3	2.6	1.1	.0	.0	.0	50	.6	5.0
-3	.3	.9	1.9	.6	.0	.0	.0	33	.7	3.0
-4	.3	.8	.8	.1	.0	.0	.0	18	.1	1.9
-5	.1	.4	.6	.2	.0	.0	.0	12	.1	1.2
-6	.1	.2	.0	.1	.0	.0	.0	4	.1	.3
-7/-8	.2	.0	.1	.1	.0	.0	.0	4	.1	.3
-9/-10	.2	.0	.0	.1	.0	.0	.0	3	.0	.3
-14/-16	.1	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	56		345		56		3	907	96	811
PCT	6.2	26.8	38.6	21.7	6.2	.8	.3	100.0	10.6	89.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.2	2.1	.4	.0	.0	.0	3.6	.1	.2	.0	.0	.0	.0	.3
1-2	.0	6.6	3.3	.0	.0	.0	9.9	.0	.8	.7	.0	.0	.0	1.5
3-4	.0	2.0	9.8	1.2	.0	.0	12.9	.0	.2	.4	.2	.0	.0	.9
5-6	.0	1.3	10.9	2.2	.7	.0	13.2	.0	.0	.4	.3	.2	.0	1.0
7	.0	.2	3.8	3.7	.4	.0	8.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.4	1.7	2.3	.3	.0	5.1	.0	.0	.2	.0	.2	.0	.5
10-11	.0	.0	1.2	1.3	.1	.0	2.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.6	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.6	31.3	11.8	2.6	.0	59.4	.1	1.3	1.9	.6	.3	.0	4.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.2	.0	.0	.0	.0	.4	.2	.3	.2	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.2	.1	.0	.0	.0	.5	.2	1.1	.2	.0	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1973

JULY

TABLE 18 (CONT)

AREA 0038 CAPE BLANCO
42.8N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.5	.2	.0	.0	.0	3.2	.5	1.2	.0	.0	.0	.0	1.2
1-2	.2	1.0	.5	.0	.0	.0	1.7	.0	.6	.0	.0	.0	.0	.7
3-4	.0	.0	.5	.0	.0	.0	.5	.0	.4	.1	.0	.0	.0	.5
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.5	1.6	.0	.0	.0	5.8	.5	2.4	.4	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.0	.0	.0	.0	.7	.5	1.9	.2	.0	.0	.0	2.6	
1-2	.0	.6	.3	.0	.0	.0	1.0	.0	4.1	1.1	.0	.0	.0	5.2	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	1.8	2.8	.2	.0	.0	4.8	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.7	.0	.0	.0	1.9	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.7	.1	.0	1.9	
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.7	.5	.0	.0	.0	2.5	.5	7.8	6.9	1.9	.3	.0	17.4	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	9.2	1.0	.0	.0	.0	19.0	
1-2	.4	13.9	6.1	.0	.0	.0	20.4	
3-4	.0	5.1	13.5	1.6	.0	.0	20.2	
5-6	.0	1.6	13.5	2.3	1.0	.0	18.6	
7	.0	.2	5.3	4.5	.6	.0	10.6	
8-9	.0	.6	2.0	2.5	.8	.0	5.9	
10-11	.0	.0	1.2	2.0	.2	.0	3.3	
12	.0	.0	.2	.8	.4	.0	1.4	
13-16	.0	.0	.0	.4	.2	.0	.6	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.2	30.5	42.7	14.3	3.3	.0	100.0	911

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	9.4	11.4	8.5	4.6	1.7	1.3	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	290	4
6-7	.0	1.7	7.4	9.1	3.8	3.9	1.7	1.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	219	6
8-9	.0	2.7	2.2	3.4	4.2	2.3	1.5	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	6
10-11	.0	.4	1.1	.7	2.2	.8	.7	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	7
12-13	.0	.0	.1	.0	.0	.0	.4	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	12
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
INDEX	2.0	1.1	.3	.4	.4	.7	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	4
TOTAL	22	114	167	166	112	70	48	24	15	5	1	0	0	0	0	0	0	0	0	764	5
PCT	3.0	15.3	22.4	22.3	15.1	9.4	6.3	3.2	2.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1881-1973

AUGUST

AREA 0038 CAPE BLANCO
42.8N 125.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.5	2.3	.0	.0	.0	.0	2.8	1.0	.0	11.2	.5	5.5	.0	79.1
NE	2.9	.0	8.7	.0	.0	.0	.0	8.7	.0	.0	13.8	.0	.0	.0	77.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57.7	.0	.0	.0	42.3
SE	.0	4.0	8.0	.0	.0	.0	.0	12.0	.0	.0	26.0	.0	.0	.0	62.0
S	1.7	2.2	3.5	.0	.0	.0	.0	7.4	3.5	.0	26.2	.0	2.6	.0	80.3
SW	3.3	.8	4.9	.0	.0	.0	.0	5.7	6.5	.0	18.7	.0	1.6	.0	67.5
W	9.7	.0	1.8	.0	.0	.0	.0	11.5	.0	.0	6.2	.0	.0	.0	82.3
NW	.8	.7	2.0	.0	.0	.0	.0	3.5	.2	.0	8.4	1.3	1.5	.0	85.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.3	2.3	.0	.0	.0	.0	4.7	.0	.0	48.8	2.3	.0	.0	44.2
TOT PCT	.9	.8	2.8	.0	.0	.0	.0	4.2	1.1	.0	14.8	.7	3.4	.0	75.9
TOT OBS:	758														

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TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.5	.0	2.5	.0	.0	.0	.0	2.9	1.5	.0	9.3	.0	4.4	.0	81.9
06009	1.8	1.2	3.6	.0	.0	.0	.0	5.4	2.4	.0	12.0	1.8	1.2	.0	77.1
12015	.0	2.1	4.2	.0	.0	.0	.0	6.3	.5	.0	21.0	.5	2.6	.0	68.4
18021	1.4	.0	.9	.0	.0	.0	.0	2.3	.5	.0	15.2	.5	4.6	.0	77.0
TOT PCT TOT OBS:	.9 777	.8	2.7	.0	.0	.0	.0	4.1	1.2	.0	14.5	.6	3.3	.0	76.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.9	12.8	29.2	9.4	1.6	.0		50.9	15.8		33.1	38.0	48.6	49.0	48.4	44.6	49.3	56.1
NE	.5	1.5	2.1	.4	.0	.0		4.4	12.0		2.7	3.6	4.1	1.5	6.2	9.6	3.5	5.4
E	.5	.4	.0	.1	.0	.0		1.0	5.7		.5	.0	.0	.0	1.0	1.7	2.3	2.9
SE	.5	1.4	.5	.1	.0	.0		2.6	7.5		1.5	4.0	1.4	3.1	1.5	7.5	2.7	5.0
S	.8	3.1	2.7	.3	.0	.0		6.9	10.2		3.8	4.0	7.8	5.1	11.4	7.9	8.3	1.4
SW	.2	1.9	1.4	.1	.0	.0		3.6	10.0		7.7	1.4	3.1	2.0	1.9	5.4	2.3	2.1
W	.3	2.7	.2	.1	.0	.0		3.3	7.2		4.0	3.2	1.9	2.0	1.4	4.2	5.1	5.0
NW	1.3	10.2	7.6	1.5	.2	.0		20.9	11.7		19.9	22.6	25.0	31.1	20.1	10.8	20.3	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5							6.5	.0		4.8	4.8	8.2	6.1	8.2	8.3	6.0	4.3
TOT OBS	115	314	367	109	17	0	922		12.6		186	82	147	49	182	60	166	70
TOT PCT	12.5	34.1	39.8	11.8	1.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	18
N	5.1	23.3	18.3	4.1	.1		50.9	33.1	38.0	47.4	51.5
NE	.9	2.3	1.1	.1	.0		4.4	2.7	3.6	7.0	4.0
E	.8	.1	.1	.0	.0		1.0	.5	.0	1.1	2.4
SE	1.5	.9	.2	.0	.0		2.6	1.5	1.8	3.0	3.4
S	2.2	3.9	.7	.1	.0		6.9	3.8	7.1	10.5	6.3
SW	1.4	1.7	.4	.1	.0		3.6	6.1	2.8	2.8	2.2
W	1.7	1.6	.0	.1	.0		3.3	3.8	1.9	2.1	5.1
NW	5.4	10.8	4.0	.6	.0		20.9	20.6	26.5	17.8	19.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	6.5						6.5	4.8	7.7	8.3	5.5
TOT OBS	235	411	229	46	922			248	196	242	236
TOT PCT	25.3	44.6	24.8	5.0	.1		100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1935-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.8	2.8	31.5	44.0	14.1	2.8	.0	14.0	100.0	248
06009	7.7	4.6	34.7	39.8	11.2	2.0	.0	12.6	100.0	196
12015	8.3	5.0	36.4	39.3	10.3	.8	.0	11.8	100.0	242
18021	5.5	11.4	33.9	36.0	11.4	1.7	.0	11.9	100.0	236
TOT	60	55	314	367	109	17	0	12.6		922
PCT	6.5	6.0	34.1	39.8	11.8	1.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	24.2	3.5	9.5	14.8		4.0
NE	1.9	.3	1.1	2.0		4.9
E	.5	.2	.2	.3		4.1
SE	.2	.0	.5	.9		6.6
S	1.0	.5	1.9	3.8		6.3
SW	.4	.2	1.1	2.0		6.4
W	.2	.8	1.0	.6		5.3
NW	9.9	2.3	2.5	5.7		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.9	3.1		5.9
TOT OBS	213	46	101	180	540	4.4
TOT PCT	39.4	8.5	18.7	33.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
2.9	.2	1.1	3.5	7.6	4.8	1.0	.2	.7	.1	29.9	
.4	.4	.4	.6	1.0	.3	.0	.0	.0	.0	2.2	
.2	.0	.0	.2	.1	.0	.0	.0	.0	.0	.7	
.4	.0	.2	.8	.5	.3	.0	.0	.0	.0	.2	
1.6	.0	.3	1.4	1.3	.9	.2	.0	.0	.0	1.5	
.6	.0	.0	.2	.8	.3	.0	.2	.0	.0	1.6	
.0	.0	.4	.3	.4	.1	.0	.0	.0	.0	1.4	
1.2	.2	.2	1.2	2.7	1.1	.7	.2	.0	.0	13.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.9	.2	.4	.4	.9	.0	.0	.0	.0	.0	2.2	
49	5	16	42	83	42	10	3	4	1	285	
9.1	.9	3.0	7.8	15.4	7.8	1.9	.6	.7	.2	52.8	
											540 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
>6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1		
>5000	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
>3500	2.4	3.6	3.8	3.8	3.8	3.8	3.8	3.8		
>2000	7.8	10.7	11.2	11.2	11.2	11.2	11.2	11.2		
>1000	17.7	24.8	26.0	26.0	26.4	26.4	26.4	26.4		
>600	21.9	31.5	33.6	33.8	34.2	34.2	34.2	34.2		
>300	22.2	33.1	36.2	36.7	37.1	37.1	37.1	37.1		
>150	22.2	33.3	37.1	37.6	38.0	38.2	38.2	38.2		
>0	22.6	34.0	38.0	39.2	41.2	42.7	46.3	47.2		
TOTAL	125	188	210	217	228	236	256	261		

TOTAL NUMBER OF OBS: 553

PCT FREQ NM <5/8: 52.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBSCD	TOTAL OBS
22.2	13.9	9.8	4.1	2.6	2.8	5.7	8.1	22.5	8.3	581

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1881-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	NO PCP	2.9	.0	.0	.3	.7	.4	.1	.6	.0	2.0	7.0	
	TOT %	2.9	.0	.0	.3	.7	.5	.2	.6	.0	2.0	7.2	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	1.0	.2	.0	.0	.3	.1	.0	.3	.0	.0	1.9	
	TOT %	1.1	.2	.0	.0	.3	.1	.0	.4	.0	.0	2.1	
1<2	PCP	.5	.0	.0	.0	.0	.0	.1	.0	.0	.1	.8	
	NO PCP	1.4	.0	.1	.0	.6	.2	.0	.1	.0	.1	2.5	
	TOT %	1.9	.0	.1	.0	.6	.2	.1	.1	.0	.3	3.3	
2<5	PCP	.4	.1	.0	.1	.1	.0	.1	.2	.0	.0	1.2	
	NO PCP	1.0	.6	.2	.0	.3	.1	.1	.8	.0	.3	3.3	
	TOT %	1.4	.7	.2	.1	.4	.1	.3	1.0	.0	.3	4.5	
5<10	PCP	.4	.1	.0	.1	.3	.0	.0	.0	.0	.1	1.1	
	NO PCP	10.9	.4	.1	.6	1.6	.6	.5	4.1	.0	1.1	19.9	
	TOT %	11.2	.6	.1	.7	1.9	.6	.5	4.1	.0	1.2	20.9	
10+	PCP	.0	.1	.0	.0	.1	.0	.1	.3	.0	.0	.7	
	NO PCP	33.4	3.0	.4	.6	3.6	2.4	2.5	13.5	.0	2.0	61.3	
	TOT %	33.4	3.1	.4	.6	3.7	2.4	2.6	13.8	.0	2.0	62.0	
TOT OBS													755
TOT PCT		52.0	4.6	.9	1.7	7.6	3.9	3.7	20.0	.0	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.1	.1	.2	.0	.0	.0	.0	1.9	2.4	
	4-10	1.2	.0	.0	.3	.5	.0	.0	.4	.0		2.4	
	11-21	1.0	.0	.0	.0	.0	.4	.1	.4	.0		1.9	
	22+	.6	.0	.0	.0	.0	.1	.1	.0	.0		.7	
	TOT %	2.9	.0	.1	.3	.8	.4	.1	.8	.0	1.9	7.3	
1/2<1	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.7	.2	.0	.1	.3	.1	.0	.3	.0		1.5	
	11-21	.1	.0	.0	.0	.0	.0	.0	.3	.0		.4	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0		.2	
	TOT %	1.2	.2	.0	.1	.3	.1	.0	.4	.0	.0	2.4	
1<2	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	.6	
	4-10	.4	.0	.0	.0	.2	.1	.1	.0	.0		.8	
	11-21	.9	.0	.0	.0	.2	.1	.0	.1	.0		1.2	
	22+	.5	.0	.0	.0	.1	.0	.0	.0	.0		.6	
	TOT %	1.7	.0	.1	.1	.5	.2	.1	.1	.0	.4	3.2	
2<5	0-3	.1	.2	.0	.1	.1	.0	.0	.2	.0	.2	1.1	
	4-10	.4	.3	.2	.0	.1	.1	.4	.4	.0		1.9	
	11-21	.6	.1	.0	.0	.1	.0	.0	.3	.0		1.1	
	22+	.3	.0	.0	.0	.0	.0	.0	.1	.0		.4	
	TOT %	1.3	.6	.2	.1	.4	.1	.4	.9	.0	.2	4.3	
5<10	0-3	.3	.0	.1	.1	.1	.0	.1	.4	.0	1.5	2.7	
	4-10	1.9	.2	.0	.5	.9	.4	.4	2.0	.0		6.4	
	11-21	6.3	.4	.0	.2	.8	.2	.0	.9	.0		8.7	
	22+	3.0	.0	.0	.0	.1	.0	.0	.6	.0		3.7	
	TOT %	11.5	.6	.1	.8	1.9	.6	.5	4.0	.0	1.5	21.5	
10+	0-3	.9	.2	.1	.1	.4	.1	.2	.8	.0	2.4	5.2	
	4-10	8.2	.9	.2	.3	1.1	1.2	2.0	7.0	.0		20.9	
	11-21	17.1	1.7	.0	.2	1.8	.7	.1	5.6	.0		27.3	
	22+	6.6	.3	.1	.1	.1	.0	.0	.8	.0		8.0	
	TOT %	32.9	3.0	.4	.7	3.4	2.1	2.4	14.2	.0	2.4	61.4	
TOT OBS													847
TOT PCT		91.5	4.5	.9	2.1	7.2	3.6	3.5	20.4	.0	6.4	100.0	

AUGUST

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1881-1973AREA 0038 CAPE BLANCO
42.8N 125.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	3.9	.6	2.6	6.5	15.5	6.5	1.9	.6	.6	.6	39.4	60.6	135
06009	7.3	1.6	2.4	6.5	13.8	7.3	.8	.0	.0	.0	39.8	60.2	123
12015	16.0	.8	3.2	8.8	16.8	10.4	3.2	.0	.8	.0	60.0	40.0	125
18021	9.1	1.2	3.0	8.5	13.3	6.1	2.4	1.2	1.2	.6	46.7	53.3	165
TOT	50	6	16	43	84	42	12	3	4	2	262	306	568
PCT	8.8	1.1	2.8	7.6	14.8	7.4	2.1	.5	.7	.4	46.1	53.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	4.4	3.1	1.8	3.1	27.2	60.5	228
06009	4.8	1.6	4.3	4.8	18.8	65.6	186
12015	13.5	3.1	4.0	4.9	16.1	58.3	223
18021	6.5	1.3	2.6	4.3	23.5	61.7	230
TOT	64	20	27	37	187	532	867
PCT	7.4	2.3	3.1	4.3	21.6	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	4.0	8.0	16.0	25.3	58.7	150
06009	8.5	13.6	22.9	20.3	56.8	118
12015	16.3	22.0	34.1	28.5	37.4	123
18021	9.3	14.2	24.7	24.7	50.6	162
TOT	51	78	133	137	283	553
PCT	9.2	14.1	24.1	24.8	51.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.5	.5	.2	.6	.0	11	1.8
65/69	.0	.0	.0	.2	1.0	3.5	4.2	1.6	65	10.4
60/64	.0	.0	.0	.2	.6	8.8	17.9	10.2	236	37.7
55/59	.0	.0	.0	.5	.2	2.9	14.5	23.3	259	41.4
50/54	.0	.0	.0	.0	.0	.0	2.1	6.5	54	8.6
TOTAL	0	0	0	9	14	96	246	261	626	100.0
PCT	.0	.0	.0	1.4	2.2	15.3	39.3	41.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
70/74	1.1	.0	.0	.0	.0	.3	.2	.2	.0	.0
65/69	3.9	.6	.0	.6	1.3	.6	2.9	.0	.5	.0
60/64	18.9	2.0	.2	.8	2.8	1.1	2.3	7.5	.0	2.2
55/59	22.2	2.2	.7	.5	2.8	1.5	.5	8.7	.0	2.2
50/54	5.7	.3	.0	.2	.9	.2	.0	.9	.0	.5
TOTAL	51.8	5.0	.9	1.5	7.1	4.4	3.6	20.3	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	76	72	69	60	54	51	50	61.0	248
06009	68	66	63	59	52	51	50	58.6	200
12015	76	66	63	58	52	50	50	57.9	245
18021	72	70	67	60	54	50	50	60.3	241
TOT	76	70	66	59	53	50	50	59.5	934

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	1.8	5.5	23.0	41.8	27.9	83	165		
06009	.0	2.2	.0	11.0	33.8	32.9	88	136		
12015	.0	.6	.0	8.8	36.9	53.8	90	160		
18021	.0	1.1	2.8	20.0	41.7	34.4	86	180		
TOT	0	9	14	103	249	266	87	641		

AUGUST

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1881-1973

TABLE 17

AREA 0038 CAPE BLANCO
42.8N 125.0WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.0	.4	.4	.0	6	.1	.7
11/13	.0	.0	.4	.0	.7	.1	.1	10	.0	1.4
9/10	.0	.0	.8	.8	.7	.6	.0	21	.7	2.2
7/8	.0	.3	2.4	1.4	.7	.4	.0	37	.8	4.3
6	.0	1.1	1.8	1.0	.8	.1	.0	35	.3	4.6
5	.1	1.5	2.2	2.2	.4	.0	.0	47	1.1	5.5
4	.3	1.4	2.5	1.5	1.7	.3	.0	55	1.1	6.6
3	.1	3.6	4.1	2.8	1.0	.1	.0	84	1.4	10.3
2	.6	1.7	3.9	3.2	1.1	.0	.0	75	2.2	8.3
1	.4	1.0	3.1	3.5	.6	.1	.0	62	.4	8.3
0	.4	2.4	5.9	3.1	.8	.0	.0	90	1.8	10.8
-1	.0	1.4	1.3	4.5	.3	.0	.0	53	.4	7.0
-2	.6	.8	3.6	3.2	.0	.0	.0	59	1.0	7.3
-3	.1	.4	2.2	1.3	.0	.0	.0	29	.8	3.2
-4	.1	.7	.6	.6	.0	.0	.0	14	.7	1.3
-5	.1	.3	1.1	.3	.1	.0	.0	14	.3	1.7
-6	.0	.0	.4	.3	.0	.0	.0	5	.0	.7
-7/-8	.3	.4	.8	.0	.0	.0	.0	11	.4	1.1
-9/-10	.6	.0	.1	.0	.0	.0	.0	5	.1	.6
-11/-13	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
TOTAL	27	122	212	87	17	1	715	100.0	13.8	86.2
PCT	3.8	17.1	37.6	29.7	9.4	2.4	.1			

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	1.5	.0	.0	.0	.0	2.3	.9	.6	.0	.0	.0	.0	1.5
1-2	.3	3.4	7.1	.0	.0	.0	12.8	.0	.3	1.2	.0	.0	.0	1.8
3-4	.0	4.2	10.0	2.8	.0	.0	17.0	.0	1.0	1.7	.1	.0	.0	2.8
5-6	.0	1.5	5.7	3.5	.0	.0	10.6	.0	.0	.1	.1	.0	.0	.2
7	.0	.3	.8	3.0	1.4	.0	5.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.0	1.3	.0	.0	3.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.5	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.9	25.8	11.0	2.0	.0	52.8	.9	2.1	3.1	.2	.0	.0	6.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
1-2	.3	.3	.0	.0	.0	.0	.6	.0	.4	.5	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.0	.0	.0	.0	.9	.3	.4	.5	.3	.0	.0	1.5

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0028 CAPE BLANCO
42.8N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.2	1.2	.0	.0	.0	2.4	.0	.9	.3	.0	.0	.0	1.4
3-4	.0	.5	.6	.0	.0	.0	1.2	.0	.1	.3	.0	.0	.0	.4
5-6	.0	.0	.2	.3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	2.4	.3	.0	.0	5.9	.0	1.3	1.2	.0	.0	.0	2.5

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.2	.0	.0	.0	.0	1.2	.7	2.6	.0	.0	.0	.0	3.3	93.9
1-2	.0	.6	.0	.0	.0	.0	.6	.3	4.8	2.8	.0	.0	.0	7.8	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	2.1	4.5	.2	.0	.0	6.9	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.4	.8	.2	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.1	.2	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.1	.2	.0	.0	.0	2.3	1.0	9.9	9.5	1.2	.2	.0	21.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.7	7.9	.0	.0	.0	.0	17.6	329
1-2	.9	14.0	13.1	.0	.0	.0	28.0	
3-4	.0	8.2	17.0	3.0	.0	.0	28.2	
5-6	.0	1.8	7.0	4.0	.0	.0	12.8	
7	.0	.3	2.1	3.3	1.5	.0	7.2	
8-9	.0	.0	2.4	1.8	.0	.0	4.2	
10-11	.0	.0	.6	.6	.3	.0	1.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.6	32.2	42.2	12.8	2.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	11.8	14.8	9.5	4.2	2.1	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	4
6-7	.2	1.4	11.1	6.5	3.7	3.7	.9	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	160	5
8-9	.0	.5	3.2	3.5	2.1	1.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	5
10-11	.0	.5	2.1	1.1	.9	.9	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
12-13	.0	.0	1.2	.2	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
>13	.0	.0	.0	.7	.2	.2	.4	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
INDET	2.3	.5	1.1	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	2
TOTAL	23	84	190	123	67	49	18	7	4	2	1	0	0	0	0	0	0	0	0	568	5
PCT	4.0	14.8	33.5	21.7	11.8	8.6	3.2	1.2	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1860-1973

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.7	.7	1.2	.0	.0	.0	.0	2.4	.2	.5	10.9	.7	4.0	.0	81.8
NE	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	9.0	.0	5.7	.0	82.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.3	.0	14.0	.0	69.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0	27.5	2.7	4.0	.0	60.4
S	8.3	2.2	7.9	.0	.0	.0	.0	16.2	5.8	.0	13.7	.0	4.3	.0	60.0
SW	4.2	2.1	2.1	.0	.0	.0	.0	8.5	1.1	1.1	10.6	2.1	.5	.0	77.2
W	4.2	.0	.0	.0	.0	.0	.0	4.2	4.2	4.2	4.9	.0	2.1	.0	81.9
NW	.0	2.3	1.2	.0	.0	.0	.0	3.5	.8	.0	9.5	1.0	3.2	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.0	.0	4.8	.0	64.3
TOT PCT	1.9	1.1	2.2	.0	.0	.0	.0	4.7	1.5	.4	12.4	.6	4.3	.0	76.3
TOT OBS:	929														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.9	1.1	1.5	.0	.0	.0	.0	4.2	1.5	.0	10.3	.4	4.2	.0	79.4
06009	2.4	1.9	2.4	.0	.0	.0	.0	6.1	2.4	1.4	9.0	.5	2.4	.0	79.2
12015	2.3	.9	2.3	.0	.0	.0	.0	5.0	.5	.5	16.4	.5	3.7	.0	74.0
18021	1.2	.4	2.4	.0	.0	.0	.0	3.6	1.6	.0	14.3	1.2	6.3	.0	73.0
TOT PCT	1.9	1.1	2.1	.0	.0	.0	.0	4.7	1.5	.4	12.5	.6	4.2	.0	76.4
TOT OBS:	945														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	13.3	20.6	8.1	1.3	.0		45.1	15.3		47.4	53.3	42.0	44.9	41.5	48.1	43.6	51.4
NE	.2	2.6	2.7	1.0	.1	.0		6.6	14.0		4.3	.8	5.9	3.6	9.2	8.0	9.6	5.6
E	.1	.6	.6	.0	.0	.0		1.1	8.1		.3	.0	.0	.0	2.5	.0	2.2	2.5
SE	.7	1.4	1.7	.1	.0	.0		3.9	9.9		3.1	4.4	4.5	6.1	5.3	2.7	3.4	2.5
S	1.0	6.9	5.5	1.1	.3	.0		14.8	11.7		11.9	5.6	18.2	11.2	18.0	18.6	18.9	10.6
SW	.6	3.0	1.0	.3	.0	.0		4.9	8.9		7.1	1.1	5.3	3.1	5.3	1.5	3.6	4.9
W	.6	2.4	1.3	.0	.0	.0		4.3	8.7		6.2	6.7	5.5	6.1	2.8	2.7	2.3	3.5
NW	1.4	7.3	4.4	.6	.1	.0		13.8	10.2		16.3	21.7	13.8	14.8	9.8	15.5	11.2	17.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0		3.4	6.7	6.8	10.2	7.5	3.0	5.3	1.4
TOT OBS	132	414	416	125	20	0	1107		12.3		264	45	190	49	214	66	208	71
TOT PCT	11.9	37.4	37.6	11.3	1.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	6.4	20.6	14.0	3.9	.2		45.1	15.3		48.3	42.6	43.0	45.6	
NE	1.6	2.9	1.7	.3	.0		6.6	14.0		3.7	5.4	8.9	8.6	
E	.6	.4	.1	.0	.0		1.1	4.1		.2	.0	1.9	2.2	
SE	1.6	1.8	.5	.0	.0		3.9	9.9		3.3	4.8	4.6	3.1	
S	4.8	6.5	3.0	.7	.0		14.8	11.7		11.0	13.2	18.6	18.8	
SW	2.2	2.2	.5	.1	.0		4.9	8.9		6.2	4.8	4.6	3.9	
W	1.8	2.3	.2	.0	.0		4.3	8.7		6.2	5.6	2.8	2.6	
NW	4.6	7.4	1.7	.2	.0		13.8	10.2		17.1	14.0	11.2	12.8	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	5.4						5.4	.0		3.9	7.5	6.4	4.3	
TOT OBS	318	488	239	60	2	1107		12.3		309	239	280	279	
TOT PCT	28.7	44.1	21.6	5.4	.2		100.0			100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1860-1973

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42.9N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47				
0000	3.9	8.1	29.8	43.7	13.3	1.3	.0	13.1	100.0	309
0600	7.5	5.0	38.5	38.9	9.2	.8	.0	11.7	100.0	299
1200	6.4	6.4	40.4	34.6	10.7	1.4	.0	11.7	100.0	280
1800	4.3	6.1	41.9	32.6	11.5	3.6	.0	12.4	100.0	279
TOT	60	72	414	416	125	20	0	12.3		1107
PCT	5.4	6.5	37.4	37.6	11.3	1.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSD	TOTAL OBS	MEAN CLOUD COVER
N	28.4	5.0	4.1	8.1		2.6
NE	4.9	1.1	.4	.8		2.1
E	.5	.1	.0	.4		3.6
SE	.8	.4	.4	1.8		5.5
S	2.5	1.5	2.7	8.4		6.0
SW	1.0	.4	2.4	1.5		5.4
W	1.4	1.2	1.4	.6		3.9
NW	5.3	3.0	2.0	2.8		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.5	.5	.2	2.7		5.0
TOT OBS	308	87	90	179	664	3.7
TOT PCT	46.4	13.1	13.6	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
2.8	.0	.5	1.9	3.1	1.3	.3	.3	.4	.0	34.9	
.7	.0	.0	.1	.2	.1	.0	.0	.0	.0	8.0	
.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.8	
.4	.0	.2	.0	.8	.5	.0	.0	.0	.0	1.7	
1.8	.5	1.5	1.5	1.2	2.3	.4	.2	.0	.3	5.6	
.2	.0	.2	.7	1.1	.9	.2	.1	.2	.0	1.8	
.0	.0	.2	.2	.7	.4	.2	.2	.0	.0	2.7	
.2	.0	.1	1.2	.6	1.4	.2	.2	.0	.2	9.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.5	.0	.2	.5	.3	.2	.2	.2	.0	.0	2.0	
51	3	19	41	53	46	9	7	4	3	428	664
7.7	.5	2.9	6.2	8.0	6.9	1.4	1.1	.6	.5	64.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>DR >5000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>DR >3500	2.7	3.1	3.3	3.3	3.4	3.4	3.4	3.4
>DR >2000	6.8	8.7	9.6	9.9	10.2	10.2	10.2	10.2
>DR >1000	11.2	16.3	17.5	17.9	18.2	18.2	18.2	18.2
>DR >600	14.3	22.5	23.7	24.1	24.6	24.6	24.6	24.6
>DR >300	14.8	24.7	26.3	26.9	27.4	27.4	27.4	27.4
>DR >150	14.8	24.9	26.8	27.4	27.8	27.8	27.8	27.8
>DR >0	14.8	24.9	27.4	28.4	30.0	32.5	34.9	35.7
TOTAL	100	168	185	192	203	220	236	241

TOTAL NUMBER OF OBS: 676

PCT FREQ NM <5/8: 64.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSD	TOTAL DBS	
33.3	11.0	8.1	6.9	3.5	2.4	3.6	5.3	19.0	6.9	715

SEPTEMBER

PERIOD: (PRIMARY) 1945-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	NO PCP	2.3	.3	.1	.5	1.1	.2	.0	.4	.0	1.2	6.1	
	TOT %	2.3	.3	.1	.5	1.2	.2	.0	.5	.0	1.2	6.4	
1/2<1	PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	NO PCP	.8	.1	.0	.0	.2	.2	.1	.5	.0	.1	1.9	
	TOT %	.8	.1	.0	.0	.5	.2	.1	.5	.0	.1	2.3	
1<2	PCP	.2	.0	.0	.0	.4	.0	.0	.1	.0	.0	.6	
	NO PCP	.4	.1	.0	.1	.4	.1	.0	.1	.0	.0	1.1	
	TOT %	.5	.1	.0	.1	.8	.1	.0	.2	.0	.0	1.7	
2<5	PCP	.1	.0	.0	.0	.6	.0	.0	.0	.0	.0	.8	
	NO PCP	.9	.2	.0	.2	.8	.3	.1	.8	.0	.0	3.3	
	TOT %	1.0	.2	.0	.2	1.5	.3	.1	.8	.0	.0	4.1	
5<10	PCP	.8	.2	.0	.0	.7	.3	.1	.3	.0	.0	2.4	
	NO PCP	11.1	1.9	.5	1.6	4.1	1.2	.8	1.9	.0	1.1	24.2	
	TOT %	11.9	2.0	.5	1.6	4.9	1.5	.8	2.3	.0	1.1	26.5	
10+	PCP	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.4	
	NO PCP	28.8	4.5	.6	1.6	5.9	2.7	2.8	9.5	.0	2.2	58.6	
	TOT %	28.8	4.5	.6	1.6	6.1	2.8	2.9	9.5	.0	2.2	59.0	
TOT OBS													927
TOT PCT		49.3	7.2	1.2	4.0	15.0	5.1	3.9	13.8	.0	4.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.6	.0	.0	.1	.2	.0	.0	.1	.0	1.2	2.2	
	4-10	.5	.1	.0	.3	.7	.1	.0	.2	.0	.0	1.9	
	11-21	1.5	.0	.1	.1	.1	.0	.0	.2	.0	.0	2.1	
	22+	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.4	
	TOT %	2.7	.3	.1	.5	1.2	.2	.0	.6	.0	1.2	6.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	.3	
	4-10	.4	.0	.0	.0	.0	.1	.0	.2	.0	.0	.8	
	11-21	.1	.0	.0	.0	.2	.0	.1	.1	.0	.0	.5	
	22+	.2	.0	.0	.0	.3	.1	.0	.0	.0	.0	.6	
	TOT %	.7	.0	.0	.0	.5	.2	.1	.4	.0	.2	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	11-21	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.9	
	22+	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.6	.0	.0	.0	.7	.2	.0	.2	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.3	.0	.0	.1	.0	.1	.5	
	4-10	.4	.0	.0	.0	.4	.2	.0	.6	.0	.0	1.7	
	11-21	.8	.0	.0	.2	.6	.0	.0	.0	.0	.0	1.6	
	22+	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.9	
	TOT %	1.4	.2	.0	.2	1.7	.3	.0	.7	.0	.1	4.7	
5<10	0-3	.4	.2	.1	.4	.2	.2	.0	.1	.0	1.3	3.1	
	4-10	3.7	.6	.2	.6	2.4	1.2	.6	.9	.0	.0	10.1	
	11-21	4.1	.8	.1	.4	2.1	.3	.4	1.1	.1	.1	9.3	
	22+	3.8	.3	.0	.1	.4	.0	.0	.1	.0	.0	4.7	
	TOT %	12.0	1.9	.5	1.5	5.1	1.7	1.0	2.3	.0	1.3	27.2	
10+	0-3	.5	.0	.0	.1	.3	.4	.2	.7	.0	1.9	4.2	
	4-10	8.4	2.0	.4	.4	3.0	1.4	1.7	5.1	.0	.0	22.5	
	11-21	14.2	1.9	.1	1.0	2.1	.8	.9	2.9	.0	.0	23.8	
	22+	5.6	.3	.0	.0	.2	.0	.0	.6	.0	.0	6.9	
	TOT %	28.8	4.4	.6	1.5	5.6	2.6	2.8	9.4	.0	1.9	57.5	
TOT OBS													1036
TOT PCT		46.1	6.9	1.1	3.7	14.7	5.2	4.0	13.6	.0	4.6	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1860-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	5.5	.0	2.0	5.0	3.0	8.0	.5	1.5	1.0	.0	26.4	73.6	201
06009	7.6	.0	1.9	7.0	8.9	5.7	.6	1.3	.0	1.3	34.4	65.6	197
12015	11.5	.0	3.4	5.4	10.8	4.7	2.0	.0	1.4	.7	39.9	60.1	148
18021	7.6	1.6	3.8	7.6	9.7	7.6	2.2	1.1	.0	.0	41.1	58.9	185
TOT	34	3	19	43	54	46	9	7	4	3	242	449	691
PCT	7.8	.4	2.7	6.2	7.8	6.7	1.3	1.0	.6	.4	35.0	65.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	5.5	1.4	1.0	3.1	24.2	64.8	293
06009	4.7	2.1	.9	3.0	28.3	60.9	233
12015	10.0	3.9	2.3	5.8	27.4	50.6	259
18021	6.7	1.9	2.6	7.1	28.7	53.0	258
TOT	71	24	18	50	285	605	1053
PCT	6.7	2.3	1.7	4.7	27.1	57.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	5.1	8.1	14.6	11.6	73.7	198
06009	7.7	10.3	18.6	17.9	63.5	196
12015	11.8	16.7	25.7	18.8	55.6	144
18021	7.9	15.7	28.1	18.0	59.9	178
TOT	33	84	145	110	421	676
PCT	7.8	12.4	21.4	16.3	62.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.3	.0	.0	3	.4
65/69	.0	.0	.1	.1	.9	1.3	1.3	1.3	35	5.2
60/64	.0	.0	.1	.1	2.8	9.8	16.3	10.2	272	40.4
55/59	.0	.0	.0	.0	1.3	6.1	21.9	14.8	298	44.1
50/54	.0	.0	.0	.0	.0	.7	4.1	5.0	67	9.9
TOTAL	0	0	2	2	42	123	295	212	676	100.0
PCT	.0	.0	.3	.3	6.2	18.2	43.6	31.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.3	.0	.0	.0
2.9	.3	.0	.0	.1	.9	.1	.8	.0	.0
15.5	2.5	.6	1.8	6.8	2.0	2.5	7.3	.0	1.3
20.1	2.2	.5	2.6	7.0	1.4	1.4	6.5	.0	2.4
4.5	.9	.2	.3	1.3	.3	.0	1.0	.0	1.3
43.1	5.8	1.3	4.7	15.5	4.7	4.3	15.7	.0	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	74	72	66	60	55	51	50	60.4	306
06009	67	65	63	58	52	50	50	58.1	244
12015	66	65	63	57	52	50	49	57.3	285
18021	68	66	65	59	54	51	50	59.2	277
TOT	74	67	65	59	53	50	49	58.8	1112

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	2.2	11.5	23.6	42.3	20.3	82	182		
06009	.0	.0	3.0	13.3	40.4	43.4	88	166		
12015	.0	.7	2.6	10.5	45.4	40.8	88	152		
18021	.0	.0	6.3	23.3	45.0	25.4	84	189		
TOT	0	5	42	125	298	219	65	689		

SEPTEMBER

PERIOD: (PRIMARY) 1945-1973
(OVER-ALL) 1960-1973

TABLE 17

AREA 0038 CAPE BLANCO
42.9N 124.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.1	.1	.0	.2	4	.0	.5
11/13	.0	.0	.2	.7	.6	.1	.0	14	.1	1.5
9/10	.0	.1	1.1	1.6	.2	.0	.0	27	.6	2.5
7/8	.0	.5	2.5	2.1	1.4	.1	.1	58	.9	5.7
6	.0	.6	2.1	1.1	.7	.0	.0	39	.1	4.3
5	.1	1.5	3.1	2.1	.2	.1	.0	62	.7	6.4
4	.1	2.3	2.4	2.6	.7	.0	.0	71	1.3	6.8
3	.0	2.5	4.3	2.7	.6	.0	.0	89	1.4	8.8
2	.2	1.8	3.4	4.0	.9	.0	.0	91	.7	9.7
1	.3	2.1	6.5	4.7	.3	.0	.0	122	1.9	12.0
0	.8	2.1	4.6	3.0	.1	.0	.0	92	.9	9.6
-1	.2	1.6	4.8	.6	.1	.0	.0	64	1.0	6.3
-2	.6	1.5	3.1	.9	.1	.0	.0	34	1.0	5.1
-3	.0	1.1	1.8	.8	.0	.0	.0	33	.8	3.0
-4	.5	.7	.8	.5	.0	.0	.0	21	.7	1.7
-5	.1	.5	.6	.3	.0	.0	.0	13	.0	1.5
-6	.5	.2	.6	.1	.0	.0	.0	12	.1	1.3
-7/-8	.1	.5	.3	.0	.0	.0	.0	8	.2	.7
-11/-13	.0	.0	.2	.0	.0	.0	.0	2	.1	.1
TOTAL	31	170	244	244	53	3	3	876	110	768
PCT	3.5	19.4	42.5	27.9	6.1	.3	.3	100.0	12.6	87.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	5.2	.7	.0	.0	.0	6.2	.0	.9	.0	.0	.0	.0	.9
1-2	.6	6.8	5.9	.0	.0	.0	13.3	.0	2.3	.6	.0	.0	.0	2.9
3-4	.4	3.1	9.0	.7	.0	.0	13.2	.0	.1	1.0	.0	.0	.0	1.1
5-6	.0	1.5	4.8	2.0	.2	.0	8.6	.0	.1	1.0	.6	.0	.0	1.7
7	.0	.0	2.7	2.0	.2	.0	4.9	.0	.0	.3	.3	.1	.0	.6
8-9	.0	.0	.6	.5	.2	.0	1.3	.0	.0	.5	.0	.1	.0	.5
10-11	.0	.0	.2	.5	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	16.6	24.0	6.1	.6	.0	48.5	.0	3.4	3.4	.9	.1	.0	7.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.3	.2	.0	.0	.0	.8
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.4	.3	.0	.0	.0	.7
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.6	.0	.0	.0	1.6	.2	.8	.9	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0038 CAPE BLANCO
42.9N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW								
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.5	2.8	.0	.0	.0	.0	3.3	.5	1.0	.0	.0	.0	.0	1.5		
1-2	.2	3.3	.7	.0	.0	.0	4.3	.0	1.3	.0	.0	.0	.0	1.5		
3-4	.0	1.3	2.3	.9	.0	.0	4.5	.2	.5	.1	.0	.0	.0	.8		
5-6	.0	.2	1.9	.0	.0	.0	2.1	.0	.1	.4	.0	.0	.0	.5		
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3		
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.7	7.6	5.8	1.4	.0	.0	15.5	.7	3.1	.8	.0	.0	.0	4.5		

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	1.0	.0	.0	.0	.0	1.3	.5	1.3	.0	.0	.0	.0	2.0		
1-2	.0	1.0	.0	.0	.0	.0	1.0	.1	2.7	1.3	.0	.0	.0	4.2		
3-4	.0	.0	.6	.0	.0	.0	.6	.1	2.0	1.4	.0	.0	.0	3.4		
5-6	.0	.2	.6	.0	.0	.0	.8	.0	1.0	.3	.3	.0	.0	2.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3		
8-9	.0	.2	.2	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	2.4	1.4	.0	.0	.0	4.1	.6	7.2	4.0	.3	.0	.0	12.3	96.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	13.4	.9	.0	.0	.0	20.6	
1-2	.9	18.3	9.0	.0	.0	.0	28.2	
3-4	.7	7.2	14.8	1.6	.0	.0	24.3	
5-6	.0	3.0	9.5	3.0	.2	.0	15.7	
7	.0	.0	4.2	2.3	.2	.0	6.7	
8-9	.0	.2	1.9	.5	.2	.0	2.8	
10-11	.0	.0	.2	.7	.0	.0	.9	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	42.1	40.3	8.8	.7	.0	100.0	432

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.7	8.1	10.9	11.1	9.0	2.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	278	4
6-7	.1	2.8	6.9	8.6	3.2	2.1	2.2	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	3
8-9	.0	1.6	4.7	5.0	3.7	1.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	3
10-11	.0	.7	.9	.7	.7	.7	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
12-13	.0	.0	.1	.1	.7	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
513	.0	.0	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDEX	4.0	1.3	.3	1.2	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	2
TOTAL	46	99	162	170	107	46	29	14	3	2	0	0	0	0	0	0	0	0	0	678	3
PCT	6.8	14.6	23.9	25.1	15.8	6.8	4.3	2.1	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1861-1973

OCTOBER

AREA 0038 CAPE BLANCO
42.9N 125.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.2	.7	.0	.0	.0	.0	.0	.9	.0	.4	7.2	.9	2.5	.0	88.1	
NE	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	1.3	8.5	1.0	2.7	.0	85.5	
E	3.8	.0	3.8	.0	.0	.0	.0	7.6	2.9	.0	10.5	.0	2.9	.0	76.2	
SE	6.2	.0	4.7	.0	.0	.0	1.4	10.9	4.3	1.4	18.7	.0	3.3	.0	63.4	
S	8.4	.9	6.1	.0	.0	.0	.0	14.7	3.4	.3	19.0	.3	1.0	.0	65.3	
SW	3.2	1.2	5.3	.0	.0	.0	.0	9.7	6.2	.0	11.5	.0	1.8	.0	70.7	
W	2.9	1.5	1.1	.0	.0	.0	.0	5.5	2.2	.0	8.8	.0	2.2	.0	81.3	
NW	.0	2.3	1.0	.0	.0	.0	.0	3.3	.2	.0	14.1	.0	1.5	.0	80.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	32.1	.0	.7	.0	64.2	
TOT PCT	2.8	.8	2.6	.0	.0	.0	.1	6.0	1.7	.4	13.1	.4	1.9	.0	76.5	
TOT OBS:	1374															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST	NO SIG WEA
00003	1.7	.8	1.7	.0	.0	.0	.0	4.1	1.9	.3	13.3	.8	1.9	.0		77.6
06009	3.1	.3	3.7	.0	.0	.0	.0	7.1	1.9	.9	11.8	.0	.9	.0		77.4
12015	3.5	.9	2.9	.0	.0	.0	.0	7.3	.9	.3	12.5	.3	1.5	.0		77.3
18021	3.0	1.4	2.5	.0	.0	.0	.3	6.3	1.9	.0	13.2	.6	3.0	.0		73.0
TOT PCT	2.8	.9	2.7	.0	.0	.0	.1	6.2	1.7	.4	13.2	.4	1.9	.0		76.3
TOT OBS:	1392															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.6	10.0	14.2	4.0	.4	.0		30.1	14.1	33.4	26.0	27.1	38.9	27.0	29.0	31.2	23.7
NE	.2	3.6	2.9	.8	.1	.0		7.5	12.3	4.2	7.5	5.5	7.9	9.1	8.5	9.7	13.9
E	.3	1.6	.2	.1	.0	.0		2.3	7.6	1.0	4.5	2.0	1.6	2.2	4.4	3.1	2.5
SE	.6	3.2	1.6	.2	.0	.1		5.7	10.6	3.4	6.8	3.8	7.9	7.7	8.8	5.4	10.4
S	1.3	9.2	9.7	2.1	.3	.2		22.9	13.0	23.2	19.5	24.3	18.3	20.2	21.3	26.3	20.9
SW	.4	4.2	2.4	.7	.2	.0		7.9	11.9	9.5	8.9	9.4	6.3	6.0	5.9	6.8	9.8
W	.4	2.7	1.4	.3	.0	.0		4.8	10.1	4.7	4.8	7.0	2.4	4.3	3.9	2.8	8.2
NW	.7	4.7	3.2	.9	.0	.0		9.5	11.3	9.9	12.0	10.4	10.3	8.9	11.8	7.3	10.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.3							9.3	.0	10.6	.0	10.4	6.3	14.5	4.4	7.3	.0
TOT OBS	238	426	569	144	16	4	1597		11.5	358	73	299	63	330	68	327	79
TOT PCT	14.9	39.2	35.6	9.0	1.0	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	12
N	5.3	14.1	9.0	1.7	.0		30.1	14.1	33.9	29.1	27.4
NE	1.7	3.6	1.6	.5	.0		7.5	12.3	4.8	5.9	9.0
E	1.3	.9	.0	.1	.0		2.3	7.6	1.6	1.9	2.6
SE	1.8	2.9	.9	.0	.1		5.7	10.6	3.9	4.6	7.9
S	5.2	11.0	5.5	1.1	.2		22.9	13.0	22.6	23.3	20.4
SW	2.1	4.1	1.2	.5	.0		7.9	11.9	9.4	8.9	6.0
W	1.7	2.3	.7	.0	.0		4.8	10.1	4.8	6.2	4.6
NW	2.3	4.9	2.2	.1	.0		9.5	11.3	10.3	10.4	9.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	9.3						9.3	.0	8.8	9.7	12.8
TOT OBS	490	703	337	63	4	1597		11.5	431	362	398
TOT PCT	30.7	44.0	21.1	3.9	.3		100.0		100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	8.8	5.3	36.9	38.1	8.8	2.1	.0	12.0	100.0	431
0600	9.7	5.0	41.4	33.7	8.8	1.1	.3	11.2	100.0	362
1200	12.8	5.5	37.9	34.2	9.3	.0	.3	10.8	100.0	398
1800	5.9	6.7	40.9	36.2	9.1	.7	.5	11.8	100.0	406
TOT	148	90	626	569	144	16	4	11.5		1597
PCT	9.3	5.6	39.2	35.6	9.0	1.0	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	18.1	3.8	3.7	3.6		2.4
NE	4.2	.7	1.0	1.1		2.7
E	.6	.3	.5	.6		4.3
SE	1.3	.3	1.0	2.0		5.3
S	3.3	1.6	5.6	13.4		6.0
SW	1.3	.6	1.8	4.2		5.0
W	.9	1.1	1.7	1.5		4.2
NW	2.6	1.8	1.7	2.2		.0
VAR	.0	.0	.0	.0		5.1
CALM	3.1	1.6	1.7	5.2		4.4
TOT OBS	380	129	203	368	1086	
TOT PCT	35.5	11.9	18.7	33.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.0	.3	.7	1.5	1.4	.2	.2	.4	.0	23.4	
NE	.5	.0	.0	.2	.4	.4	.1	.1	.1	.0	5.1	
E	.2	.0	.0	.2	.3	.0	.2	.0	.0	.0	1.2	
SE	.8	.0	.1	.3	.6	.6	.1	.0	.0	.0	2.1	
S	2.9	.1	.7	2.3	4.1	5.7	.8	.5	.5	.1	6.3	
SW	.6	.0	.3	.9	1.3	1.7	.2	.2	.2	.1	2.4	
W	.3	.0	.1	.4	.8	.8	.1	.1	.1	.0	2.7	
NW	1.0	.0	.0	.3	1.0	.6	.0	.0	.4	.0	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9	.0	.2	.5	.5	2.0	.2	.1	.0	.2	5.2	
TOT OBS	112	1	17	62	113	143	21	14	18	4	561	1086
TOT PCT	10.3	.1	1.6	5.7	10.4	13.2	1.9	1.3	1.7	.4	53.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >9000	1.3	1.7	2.0	2.0	2.0	2.0	2.0	2.0
>DR >5000	2.1	2.8	3.2	3.3	3.3	3.3	3.3	3.3
>DR >3000	3.4	4.6	5.1	5.2	5.2	5.2	5.2	5.2
>DR >2000	13.0	16.3	18.1	18.4	18.4	18.4	18.4	18.4
>DR >1000	19.3	25.8	28.0	28.8	28.9	28.9	28.9	28.9
>DR >600	22.2	30.5	33.5	34.3	34.5	34.6	34.6	34.6
>DR >300	23.0	31.6	35.0	35.7	36.0	36.1	36.1	36.1
>DR >150	23.0	31.7	35.1	35.8	36.1	36.2	36.2	36.2
>DR >0	23.3	32.5	36.3	37.1	37.7	40.0	44.4	46.2
TOTAL	234	335	396	405	411	436	484	504

TOTAL NUMBER OF OBS: 1091

PCT FREQ NM <5/8: 53.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS	
28.6	6.8	6.6	6.5	4.1	3.0	3.0	5.4	22.5	9.5	1131

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	NO PCP	1.1	.3	.1	.5	2.1	.4	.1	.8	.0	2.2	7.6	
	TOT %	1.1	.3	.1	.5	2.1	.5	.1	.8	.0	2.3	7.8	
1/2<1	PCP	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.6	.2	.1	.0	.0	.0	.0	.1	.0	.1	1.1	
	TOT %	.7	.2	.1	.1	.3	.1	.0	.1	.0	.1	1.5	
1<2	PCP	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.6	
	NO PCP	.1	.1	.0	.0	.4	.0	.1	.2	.0	.1	1.1	
	TOT %	.1	.1	.0	.1	1.0	.0	.1	.2	.0	.1	1.7	
2<5	PCP	.0	.0	.1	.2	.8	.2	.0	.0	.0	.1	1.3	
	NO PCP	.8	.1	.0	.2	1.4	.7	.2	.2	.0	.4	4.0	
	TOT %	.8	.1	.1	.3	2.2	.8	.2	.2	.0	.5	5.3	
5<10	PCP	.1	.1	.1	.3	1.2	.2	.1	.2	.0	.1	2.4	
	NO PCP	5.8	1.6	.4	1.0	3.7	1.6	.9	1.9	.0	1.0	18.0	
	TOT %	6.0	1.7	.5	1.3	4.9	1.8	1.1	2.2	.0	1.1	20.4	
10+	PCP	.1	.0	.0	.1	.5	.3	.1	.1	.0	.0	1.2	
	NO PCP	22.3	5.2	1.2	2.6	11.8	4.4	3.2	5.9	.0	5.6	62.1	
	TOT %	22.3	5.2	1.2	2.7	12.3	4.7	3.4	6.0	.0	5.6	63.3	
TOT OBS													1367
TOT PCT		30.9	7.6	1.9	4.9	22.8	7.8	4.9	9.5	.0	9.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.1	.1	.0	.1	.0	2.2	2.6	
	4-10	.6	.2	.1	.4	1.3	.3	.1	.4	.0		3.5	
	11-21	.2	.0	.0	.0	.8	.1	.0	.2	.0		1.4	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0		.2	
	TOT %	1.1	.3	.1	.5	2.3	.4	.1	.7	.0	2.2	7.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.4	.1	.0	.0	.1	.0	.0	.1	.0		.7	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.6	.2	.1	.1	.3	.1	.0	.1	.0	.1	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.2	.0	.1	.1	.0		.5	
	11-21	.1	.0	.0	.0	.5	.0	.0	.1	.0		.7	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	TOT %	.1	.1	.0	.1	1.1	.0	.1	.2	.0	.1	1.8	
2<5	0-3	.0	.0	.0	.1	.1	.0	.1	.0	.0	.4	.9	
	4-10	.5	.1	.0	.2	.3	.4	.1	.3	.0		1.9	
	11-21	.4	.1	.0	.1	1.4	.2	.0	.0	.0		2.2	
	22+	.0	.0	.1	.0	.4	.3	.1	.0	.0		.8	
	TOT %	.9	.1	.1	.4	2.2	.9	.3	.3	.0	.6	5.8	
5<10	0-3	.2	.1	.1	.2	.2	.1	.1	.1	.0	1.2	2.3	
	4-10	1.7	.3	.3	.6	1.5	.6	.3	.9	.0		6.1	
	11-21	3.4	1.2	.1	.4	2.6	.8	.5	1.1	.0		10.0	
	22+	1.0	.1	.0	.1	.9	.3	.1	.2	.0		2.7	
	TOT %	6.3	1.7	.5	1.3	5.1	1.8	1.0	2.3	.0	1.2	21.2	
10+	0-3	1.3	.1	.2	.2	1.0	.1	.2	.4	.0	5.4	9.0	
	4-10	7.3	2.8	1.0	1.5	5.8	2.7	2.1	3.0	.0		26.2	
	11-21	9.9	1.4	.1	.9	4.6	1.3	.9	1.8	.0		21.0	
	22+	3.5	.7	.1	.1	.5	.4	.1	.7	.0		6.1	
	TOT %	22.1	5.0	1.4	2.7	11.9	4.5	3.3	5.9	.0	5.4	62.2	
TOT OBS													1474
TOT PCT		31.0	7.4	2.1	5.0	22.8	7.7	4.9	9.5	.0	9.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

MOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	8.5	.0	1.7	5.4	8.5	18.3	2.4	.7	2.0	.3	47.8	52.2	295
06009	7.8	.4	1.9	5.9	11.2	9.3	.7	1.5	.0	.7	39.4	60.6	269
12015	11.7	.0	1.2	4.4	9.3	12.5	1.2	.8	4.0	.4	45.8	54.4	248
18021	12.9	.0	1.4	6.8	12.2	12.2	3.1	2.0	.7	.0	51.4	48.6	294
TOT PCT	113 10.2	1 .1	17 1.5	63 5.7	114 10.3	146 13.2	21 1.9	14 1.3	18 1.6	4 .4	511 46.2	595 53.8	1106 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.1	1.5	1.8	6.6	21.8	62.3	995
06009	6.7	1.5	1.9	5.2	21.2	64.0	344
12015	7.5	1.6	1.6	6.7	24.5	58.1	375
18021	10.1	1.1	2.1	5.0	18.0	63.8	378
TOT	113	21	26	88	319	925	1492
PCT	7.6	1.4	1.7	5.9	21.4	62.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NM >4/8) BY HOUR

MOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.0	10.1	20.8	28.5	50.7	288
06009	7.6	10.2	20.8	20.1	59.1	264
12015	11.7	13.0	21.5	26.3	52.2	247
18021	12.7	15.1	26.0	28.1	45.9	292
TOT	109	132	244	282	565	1091
PCT	10.0	12.1	22.4	25.8	51.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
65/69	.0	.0	.2	.2	.5	.6	.0	.2	10	1.6
60/64	.0	.0	.2	.4	2.0	4.4	5.5	2.2	96	15.0
55/59	.0	.0	.0	.4	3.3	11.8	23.2	15.2	347	54.4
50/54	.0	.0	.0	.2	.6	4.9	10.5	11.1	174	27.3
45/49	.0	.0	.0	.0	.0	.3	.9	.3	10	1.6
TOTAL	0	0	2	13	41	141	256	185	638	100.0
PCT	.0	.0	.3	2.0	6.4	22.1	40.1	29.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.3	.0	.2	.2	.2	.4	.2	.0	.0
5.4	.7	.1	.5	3.7	1.3	1.6	1.0	.0	.8
19.7	4.8	.7	2.9	9.3	4.8	3.0	6.7	.0	2.5
7.6	2.4	.9	2.2	6.3	1.6	1.8	3.5	.0	.9
1.0	.0	.2	.2	.0	.2	.0	.0	.0	.0
34.0	8.2	1.8	6.0	19.5	8.0	6.8	11.5	.0	4.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	68	63	57	52	50	48	57.5	432
06009	65	63	61	56	51	46	45	55.9	363
12015	65	62	60	55	50	48	45	55.5	396
18021	69	65	63	57	53	50	50	57.0	405
TOT	73	65	62	56	51	49	45	56.5	1596

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.3	11.0	29.5	36.4	20.8			81	173
06009	.0	.7	3.3	19.0	41.8	35.3			86	133
12015	.0	1.4	1.4	11.1	47.9	38.2			88	144
18021	.0	4.4	8.3	23.6	33.0	26.7			83	180
TOT	0	13	41	142	239	193			84	630

PERIOD: (PRIMARY) 1944-1973
(OVER-ALL) 1861-1973

OCTOBER

TABLE 17

AREA 0038 CAPE BLANCO
42.9N 125.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WQ FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
14/16	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.4	.1	.0	7	.0	.5
9/10	.0	.0	.2	.3	.6	.2	.0	.0	18	.0	1.4
7/8	.0	.0	.0	1.0	1.0	.3	.0	.0	30	.5	1.8
6	.0	.0	.5	.8	.5	.1	.0	.0	24	.2	1.6
5	.0	.1	.8	1.6	1.8	.2	.2	.0	60	.4	4.2
4	.0	.0	1.7	3.2	.8	.0	.0	.0	73	.5	5.1
3	.0	.0	2.0	3.7	1.5	.0	.0	.0	93	1.3	5.8
2	.0	.2	3.6	6.3	1.5	.0	.0	.0	152	1.8	9.8
1	.0	.2	6.2	7.1	.8	.0	.0	.0	187	1.9	12.5
0	.0	1.4	7.5	6.3	.4	.0	.0	.0	203	2.2	13.4
-1	.0	1.0	6.5	2.5	.3	.0	.0	.0	134	.8	9.5
-2	.0	1.3	5.8	2.5	.2	.0	.0	.0	127	1.1	8.7
-3	.0	1.1	3.2	1.4	.2	.0	.0	.0	75	1.1	4.7
-4	.2	1.3	1.9	.7	.0	.0	.0	.0	53	.9	3.2
-5	.1	.9	1.0	.2	.0	.0	.0	.0	28	.2	2.0
-6	.2	.2	.7	.1	.1	.0	.0	.0	15	.1	1.1
-7/-8	.0	.3	.5	.1	.0	.0	.0	.0	11	.2	.7
-9/-10	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.2
-14/-16	.3	.0	.0	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	10	105	549	490	126	16	4	1	1301	13.1	86.9
PCT	.8	8.1	42.2	37.7	9.7	1.2	.3	.1	100.0	13.1	86.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	3.0	.2	.0	.0	.0	3.9	.0	1.2	.0	.0	.0	.0	1.2
1-2	.3	3.6	1.1	.0	.0	.0	5.0	.0	1.6	.4	.0	.0	.0	2.0
3-4	.2	2.8	4.9	.4	.0	.0	8.3	.0	.8	1.2	.0	.0	.0	2.0
5-6	.0	.5	3.4	.9	.1	.0	5.0	.0	.0	.0	.0	.0	.0	1.0
7	.0	.1	.8	.7	.1	.0	1.8	.0	.0	.7	.1	.1	.0	.1
8-9	.0	.0	1.3	.8	.1	.0	2.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.4	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.9	12.1	3.7	.4	.0	27.3	.0	3.7	2.4	.3	.1	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.7
1-2	.1	.0	.0	.0	.0	.0	.1	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.6	.1	.0	.0	.0	.7
5-6	.0	.1	.0	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.2	.1	.0	.0	1.6	.0	3.1	1.1	.1	.0	.1	5.0

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0038 CAPE BLANCO
42.9N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.3	4.4	.0	.0	.0	.0		5.7	.2	2.0	.0	.0	.0	.0		2.1
1-2	.2	2.9	2.7	.0	.0	.0		5.9	.1	1.7	.2	.0	.0	.0		1.9
3-4	.0	2.8	3.9	.3	.0	.0		7.0	.0	.8	.7	.1	.0	.0		1.6
5-6	.0	.3	2.7	.3	.1	.0		3.5	.0	.4	.6	.2	.0	.0		1.2
7	.0	.1	2.0	.2	.2	.0		2.6	.0	.0	.3	.2	.0	.0		.5
8-9	.0	.0	.3	.1	.1	.0		.5	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.2	.1	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.5	10.6	11.8	1.4	.4	.0		25.8	.3	4.8	1.8	.7	.1	.0		7.6

HGT	M							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.2	.0	.0	.0	.0		1.4	.4	1.3	.0	.0	.0	.0		1.7
1-2	.1	.7	.5	.0	.0	.0		1.4	.2	1.1	.2	.0	.0	.0		1.4
3-4	.0	.7	.3	.0	.0	.0		1.1	.0	.8	1.3	.1	.0	.0		2.2
5-6	.0	.1	.2	.0	.0	.0		.3	.0	.0	.4	.2	.0	.0		.6
7	.0	.0	.0	.1	.0	.0		.0	.0	.0	.5	.2	.0	.0		.7
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.2	.0	.0		.4
10-11	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1
12	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.0	1.1	.2	.0	.0		4.6	.5	3.3	2.6	1.0	.0	.0		7.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.8	15.1	.2	.0	.0	.0	33.1	
1-2	1.1	12.9	5.6	.0	.0	.0	19.6	
3-4	.2	9.3	12.6	1.0	.0	.0	23.1	
5-6	.0	1.4	8.5	1.9	.4	.0	12.2	
7	.0	.2	3.9	1.3	.4	.0	5.8	
8-9	.0	.0	1.9	1.2	.2	.0	3.4	
10-11	.0	.1	.1	.6	.0	.0	.8	
12	.0	.1	.0	.5	.0	.0	.6	
13-16	.0	.0	.4	.6	.0	.0	1.0	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.1	.0	.1	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.1	39.3	33.1	7.5	1.0	.1	100.0	828

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	9.9	11.5	6.4	2.5	1.8	.4	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	376	4
6-7	.0	5.3	5.5	7.5	5.0	2.6	2.1	.4	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	327	5
8-9	.1	.6	2.9	3.4	3.1	2.8	1.9	.4	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	182	7
10-11	.0	.1	.9	.7	1.9	.7	.8	.2	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	71	8
12-13	.0	.0	.6	.4	.4	.2	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	7
13-14	.0	.0	.0	.0	.1	.1	.2	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	13
INDEX	3.7	.7	2.4	1.4	.9	.9	.2	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	120	4
TOTAL	32	185	265	220	154	101	66	15	32	16	6	0	0	0	0	0	0	0	0	1112	5
PCT	4.7	16.6	23.8	19.8	13.8	9.1	5.9	1.9	2.9	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1972
(OVER-ALL) 1877-1972

NOVEMBER

AREA 0038 CAPE BLANCO
42.9N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG W/ PCPN	FGG W/ PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.7	.0	3.0	.0	.0	.0	.0	4.3	1.5	.0	4.8	.0	2.0	.3	86.7
NE	.3	.5	1.6	.0	.0	.0	.0	2.4	2.4	.0	3.5	.0	1.6	.3	89.8
E	6.1	1.2	4.8	.0	.0	.0	.0	12.1	4.2	.0	5.5	.0	4.8	.0	73.3
SE	13.9	1.0	8.9	.0	.0	.0	.0	23.3	.5	.0	13.7	.0	.0	.0	62.6
S	16.1	2.2	7.9	.0	.0	.0	.0	23.4	5.6	.0	9.9	.2	.4	.0	56.5
SW	16.0	3.9	9.1	.0	.0	.0	.0	30.7	8.7	.0	2.8	1.0	.8	.0	56.0
W	10.9	10.0	2.0	.0	.0	.0	.0	22.9	8.9	.0	1.1	.0	3.4	.0	63.6
NW	3.9	3.6	2.2	.0	.0	.0	.0	11.7	7.1	3.9	3.9	.0	1.5	.0	72.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	13.6	.0	4.5	.0	79.5
TOT PCT	9.9	2.6	3.6	.0	.0	.0	.0	17.6	4.6	.3	7.0	.2	1.4	.1	68.8
TOT OBS:	1309														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG W/ PCPN	FGG W/ PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	9.2	2.6	3.0	.0	.0	.0	.0	16.8	4.5	.3	9.5	.0	1.6	.0	67.4
06009	9.8	1.6	3.6	.0	.0	.0	.0	16.7	3.2	.0	6.5	.3	.7	.0	70.6
12015	11.9	2.0	3.3	.0	.0	.0	.0	18.9	4.3	.7	5.0	.0	1.0	.3	69.9
18021	10.1	3.7	6.3	.0	.0	.0	.0	19.3	4.0	.3	7.2	.3	2.0	.0	66.9
TOT PCT	10.2	2.5	3.5	.0	.0	.0	.0	17.9	4.5	.3	7.2	.1	1.3	.1	68.5
TOT OBS:	1335														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)									
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21		
N	.4	8.4	7.8	3.0	.2	.0		19.9	14.0		22.8	12.8	18.2	19.3	19.1	24.0	17.8	23.9		
NE	.2	3.9	2.9	.7	.0	.0		7.8	12.1		5.4	4.1	8.7	5.7	7.1	12.5	9.1	12.5		
E	.4	1.8	.7	.1	.0	.0		3.1	9.0		1.4	2.0	3.1	1.1	2.9	3.8	5.4	3.3		
SE	.7	3.5	2.7	1.0	.3	.1		8.3	13.3		5.6	13.3	6.1	19.9	9.2	15.4	8.1	11.9		
S	1.0	8.7	14.1	8.0	2.2	.1		34.1	17.5		34.8	33.2	39.2	23.3	32.0	18.3	37.3	25.8		
SW	.2	2.8	4.6	1.4	.2	.0		9.2	15.1		11.8	11.7	9.5	13.6	10.6	2.9	6.5	2.2		
W	.3	2.4	2.5	.9	.3	.0		6.6	14.3		6.4	9.2	4.6	11.9	6.9	8.7	5.3	12.2		
NW	.1	3.2	3.2	1.0	.1	.0		7.6	13.6		7.5	11.7	7.0	2.8	7.8	12.5	8.1	6.7		
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.5							3.5	.0		4.3	2.0	3.6	2.3	4.5	1.9	2.3	3.3		
TOT OBS	104	313	570	237	31	2	1477		14.5		373	49	279	44	286	52	304	90		
TOT PCT	7.0	34.7	38.6	16.0	3.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.9	8.8	6.0	1.2	.0		19.9	14.0	21.6	18.3	19.8	19.2	
NE	2.0	4.0	1.4	.4	.0		7.8	12.1	5.3	8.3	7.9	9.9	
E	1.5	1.2	.4	.0	.0		3.1	9.0	1.5	2.9	3.0	4.9	
SE	2.1	3.9	1.4	.7	.1		8.3	13.3	6.5	8.0	10.1	8.9	
S	4.1	12.7	11.8	5.2	.4		34.1	17.5	34.6	37.1	29.9	34.7	
SW	.8	4.8	2.9	.6	.1		9.2	15.1	11.8	10.1	9.4	5.5	
W	1.4	3.2	1.3	.6	.1		6.6	14.3	6.8	5.6	7.2	6.9	
NW	1.5	3.7	1.8	.3	.1		7.6	13.6	8.0	6.4	8.5	7.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.5						3.5	.0	4.0	3.4	4.1	2.5	
TOT OBS	307	624	399	137	10	1477		14.5	422	323	336	394	
TOT PCT	20.8	42.2	27.0	9.3	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	24-47				
00003	4.0	2.6	28.0	44.3	17.3	3.8	.0	15.2	100.0	422
06009	3.4	4.0	41.5	35.0	13.6	2.5	.0	13.3	100.0	323
12015	4.1	3.0	38.2	37.6	15.4	1.8	.0	13.6	100.0	338
18021	2.5	4.6	33.5	36.3	17.3	5.3	.3	15.3	100.0	394
TOT	52	52	513	570	237	91	2	14.5		1477
PCT	3.5	3.5	34.7	38.6	16.0	3.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	9.4	2.9	4.0	3.4		3.4
NE	2.6	2.2	2.2	.7		3.6
E	1.3	.6	.9	.6		4.0
SE	.8	1.0	1.4	4.5		6.3
S	2.9	2.2	7.1	23.8		6.8
SW	1.1	.5	3.0	4.9		6.4
W	.9	.8	2.2	1.7		5.5
NW	1.9	.9	1.6	1.9		4.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	1.2	1.7		5.3
TOT OBS	218	117	238	435	1008	5.4
TOT PCT	21.6	11.6	23.6	43.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	2500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.7	.0	.2	1.1	1.7	1.2	.6	.0	.1	.0	14.1	
.1	.0	.0	.2	.6	.5	.3	.0	.0	.0	5.9	
.0	.0	.0	.1	.5	.2	.1	.1	.0	.1	2.2	
.9	.4	.6	.3	1.1	1.6	.1	.0	.2	.2	2.2	
3.0	.8	2.2	3.1	9.1	8.9	.7	.2	.8	.2	7.1	
.6	.3	.3	1.2	2.3	1.6	.3	.0	.2	.2	2.3	
.0	.0	.3	.8	.7	.7	.2	.2	.0	.1	2.5	
.1	.0	.1	.2	1.0	1.4	.0	.0	.1	.0	3.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.0	.1	.0	.4	.5	.3	.0	.0	.2	2.1	
61	16	39	71	177	169	27	5	14	10	419	1008
6.1	1.6	3.9	7.0	17.6	16.8	2.7	.5	1.4	1.0	41.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.7	2.2	2.4	2.4	2.4	2.4	2.4	2.4
>5000	2.1	2.7	2.9	2.9	2.9	2.9	2.9	2.9
>3500	4.3	5.1	5.6	5.6	5.6	5.6	5.6	5.6
>2000	15.8	20.1	22.0	22.2	22.3	22.3	22.3	22.3
>1000	25.1	34.8	39.1	39.7	39.8	39.8	39.8	39.8
>600	27.0	39.8	45.6	46.5	46.7	46.7	46.7	46.7
>300	27.8	42.2	49.2	50.3	50.6	50.6	50.7	50.7
>150	27.9	42.8	50.3	51.5	51.8	51.8	51.9	51.9
>0	28.1	44.0	52.4	54.1	55.0	56.6	58.1	58.3
TOTAL	286	447	532	550	559	575	590	592

TOTAL NUMBER OF OBS: 1016

PCT FREQ NM <5/8: 41.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
16.1	4.6	8.8	6.5	5.4	4.9	7.9	6.6	34.1	5.0	1071

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
	NO PCP	.3	.1	.0	.2	1.2	.0	.0	.2	.0	.4	2.4	
	TOT %	.3	.1	.0	.2	1.4	.1	.0	.2	.0	.4	2.6	
1/2<1	PCP	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.4	
	NO PCP	.2	.0	.0	.3	.4	.1	.0	.1	.0	.2	1.2	
	TOT %	.3	.0	.0	.3	.7	.1	.0	.1	.0	.2	1.6	
1<2	PCP	.1	.0	.0	.2	.7	.3	.0	.1	.0	.0	1.3	
	NO PCP	.1	.0	.0	.1	.2	.1	.0	.0	.0	.1	.5	
	TOT %	.1	.0	.0	.2	.9	.4	.0	.1	.0	.1	1.8	
2<5	PCP	.2	.0	.0	.4	2.9	.7	.3	.2	.0	.0	4.8	
	NO PCP	.4	.1	.1	.3	1.9	.4	.1	.1	.0	.0	3.5	
	TOT %	.6	.1	.1	.7	4.7	1.1	.4	.3	.0	.0	8.2	
5<10	PCP	.4	.2	.3	.8	3.9	1.3	.8	.5	.0	.1	8.2	
	NO PCP	2.2	.8	.4	1.4	5.7	1.7	1.1	1.7	.0	.3	15.2	
	TOT %	2.6	.9	.7	2.2	9.5	3.0	1.9	2.2	.0	.4	23.4	
10+	PCP	.2	.0	.1	.4	1.0	.3	.4	.1	.0	.0	2.5	
	NO PCP	19.3	6.0	2.3	3.7	17.0	4.3	4.0	4.9	.0	2.4	59.9	
	TOT %	19.5	6.0	2.4	4.1	18.0	4.6	4.4	5.0	.0	2.4	62.3	
TOT OBS													1303
TOT PCT		19.3	7.1	3.2	8.0	35.3	9.2	6.6	7.9	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	.6	
	4-10	.2	.0	.0	.1	.4	.0	.0	.0	.0	.0	.8	
	11-21	.1	.0	.0	.1	.6	.0	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.4	.1	.0	.1	.0	.0	.6	
	TOT %	.3	.1	.0	.3	1.6	.1	.0	.1	.0	.4	2.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.0	.1	.3	.1	.0	.1	.0	.0	.7	
	11-21	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.3	.0	.0	.3	.6	.1	.0	.1	.0	.1	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.1	.3	.0	.1	.0	.0	.0	.8	
	22+	.0	.0	.0	.1	.3	.4	.0	.0	.0	.0	.8	
	TOT %	.1	.0	.0	.2	.9	.4	.0	.1	.0	.1	1.8	
2<5	0-3	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	4-10	.3	.0	.0	.4	1.1	.3	.1	.2	.0	.0	2.4	
	11-21	.2	.1	.0	.1	1.3	.6	.2	.0	.0	.0	2.7	
	22+	.0	.0	.0	.3	2.2	.2	.1	.1	.0	.0	2.9	
	TOT %	.6	.1	.1	.9	4.9	1.1	.4	.3	.0	.0	8.3	
5<10	0-3	.0	.0	.2	.2	.2	.0	.1	.1	.0	.4	1.2	
	4-10	1.2	.5	.3	1.0	1.8	.7	.8	.5	.0	.0	6.8	
	11-21	.6	.3	.1	.7	3.6	1.7	.7	1.2	.0	.0	8.7	
	22+	.9	.1	.0	.3	3.8	.5	.4	.4	.0	.0	6.3	
	TOT %	2.7	.9	.6	2.2	9.4	2.9	1.9	2.1	.0	.4	23.1	
10+	0-3	.4	.1	.1	.4	.5	.2	.3	.1	.0	2.7	4.8	
	4-10	6.1	3.3	1.3	1.9	3.4	1.8	1.3	2.3	.0	.0	24.1	
	11-21	6.9	2.2	.6	1.7	8.1	2.4	1.6	1.9	.0	.0	25.4	
	22+	2.2	.5	.1	.4	3.3	.3	.7	.5	.0	.0	8.1	
	TOT %	15.6	6.4	2.4	4.4	17.3	4.6	4.2	4.8	.0	2.7	62.4	
TOT OBS													1390
TOT PCT		19.6	7.4	3.1	8.3	34.7	9.2	6.3	7.5	.0	3.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	100 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NM C/5/8 ANY HGT	TOTAL OBS
00003	8.1	2.4	2.4	7.7	17.8	18.2	3.0	.3	.7	.7	61.3	38.7	297
06009	6.5	.8	3.3	4.1	15.0	16.3	1.6	.8	1.2	.8	50.4	49.6	246
12015	4.7	1.4	4.2	9.3	14.4	13.5	2.8	.3	1.9	.9	53.5	46.5	215
18021	5.3	1.4	6.0	6.4	19.9	16.7	3.2	.4	1.8	1.4	62.4	37.6	282
TOT	65	16	41	71	177	170	28	5	14	10	597	443	1040
PCT	6.3	1.5	3.9	6.8	17.0	16.3	2.7	.5	1.3	1.0	57.4	42.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	3.4	1.7	2.4	8.6	27.6	56.2	409
0600	2.5	.9	1.5	9.4	18.8	67.2	320
1200	3.0	.9	1.8	6.1	22.8	65.3	329
1800	3.4	2.5	1.4	8.7	22.1	62.0	358
TOT	44	22	25	116	327	882	1416
PCT	3.1	1.6	1.8	8.2	23.1	62.3	100.0

TABLE 12

CUMULATIVE PCT FR Q OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1000	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	8.2	12.7	27.1	36.6	292
0600	6.7	11.3	22.7	30.7	238
1200	4.8	9.7	23.2	31.4	207
1800	5.4	12.9	24.0	39.1	279
TOT	65	120	248	354	1016
PCT	6.4	11.8	24.4	34.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.0	.3	1.3	1.4	1.6	.6	36	5.2
55/59	.0	.1	.1	.6	1.9	8.0	18.4	13.3	293	42.5
50/54	.0	.0	.0	.4	3.3	9.7	16.4	15.7	314	45.5
45/49	.0	.0	.0	.1	.3	2.0	1.4	2.2	42	6.1
40/44	.0	.0	.0	.0	.1	.0	.1	.3	4	.6
TOTAL	0	1	1	10	48	147	262	221	690	100.0
PCT	.0	.1	.1	1.4	7.0	21.3	38.0	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.2	.8	.4	.8	2.0	.9	.3	.5	.0	.1
5.9	.9	1.2	5.7	16.7	5.7	2.4	3.4	.0	.4
12.1	3.2	1.6	3.4	10.5	3.1	5.9	4.1	.0	1.6
1.0	1.2	.9	.3	1.3	.1	.9	.3	.0	.1
.0	.8	.1	.0	.1	.0	.0	.3	.0	.0
19.3	5.4	4.2	10.2	30.8	9.7	9.5	8.6	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	70	64	60	55	49	45	41	54.9	423
0600	65	61	59	54	47	45	44	53.7	328
1200	68	61	58	54	48	38	34	53.2	346
1800	64	61	59	55	49	45	39	54.3	390
TOT	70	62	59	54	48	45	34	54.1	1487

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.5	9.6	22.3	34.0	31.5	84	197
0600	.0	1.8	3.7	17.8	37.4	39.3	87	163
1200	.0	.0	4.8	23.3	39.7	32.2	85	146
1800	.0	2.5	9.9	20.2	39.4	28.1	83	203
TOT	0	13	32	148	266	230	85	709

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.2	.2	.0	5	.0	.4
9/10	.0	.0	.0	.0	.2	.6	.1	10	.0	.8
7/8	.0	.0	.0	1.1	1.5	.6	.0	40	.1	3.2
6	.0	.0	.0	.1	.3	.2	.0	7	.2	.4
5	.0	.0	.0	1.6	2.0	.5	.0	51	.4	3.7
4	.0	.0	.2	4.4	1.3	.1	.0	74	.4	5.6
3	.0	.3	.2	1.8	2.7	.0	.0	61	.7	4.3
2	.0	.0	.7	5.5	4.1	.0	.0	128	.9	9.5
1	.0	.0	.8	4.6	4.0	.1	.0	123	.6	9.4
0	.0	.1	2.3	8.9	3.3	.1	.0	180	1.5	13.2
-1	.0	.1	3.2	7.8	1.0	.0	.0	148	.7	11.4
-2	.0	.2	3.8	6.0	.3	.0	.0	127	.7	9.7
-3	.0	.3	4.1	3.2	.2	.0	.0	96	.6	7.2
-4	.0	.4	3.7	1.6	.0	.0	.0	71	.4	5.4
-5	.0	.3	2.1	.3	.0	.0	.0	34	.1	2.7
-6	.0	.7	1.4	.1	.0	.0	.0	26	.2	1.9
-7/-8	.2	1.8	.7	.1	.0	.0	.0	34	.2	2.6
-9/-10	.1	.3	.1	.0	.0	.0	.0	6	.0	.5
-11/-13	.2	.1	.2	.1	.0	.0	.0	7	.0	.6
TOTAL	6	56	290	580	267	28	2	1229	91	1138
PCT	.5	4.6	23.6	47.2	21.7	2.3	.2	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.1	.1	.0	.0	.0	2.3	.1	2.3	.0	.0	.0	.0	2.4
1-2	.1	1.9	.6	.0	.0	.0	2.7	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	2.5	2.8	.1	.0	.0	5.4	.0	.8	.8	.0	.0	.0	1.6
5-6	.0	.2	1.2	.3	.0	.0	1.7	.0	.3	.3	.0	.0	.0	.4
7	.0	.0	2.1	.5	.1	.0	2.7	.0	.4	.4	.0	.0	.0	.5
8-9	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.4	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.9	7.8	2.6	.3	.0	17.6	.1	4.3	1.9	.3	.0	.0	6.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.7	.3	.8	.1	.0	.0	.0	1.4
1-2	.0	.6	.2	.0	.0	.0	.9	.1	1.2	.4	.0	.0	.0	1.8
3-4	.0	.4	.1	.0	.0	.0	.5	.0	.1	.6	.0	.0	.0	.8
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.7	.2	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.1	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	.5	.1	.0	.0	2.3	.6	2.1	2.4	1.1	.3	.2	6.7

PERIOD: (OVER-ALL) 1963-1972

NOVEMBER

AREA 0038 CAPE BLANCO
42.9N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.8	3.1	.1	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.7
1-2	.3	3.0	1.0	.0	.0	.0	4.2	.1	1.0	.7	.0	.0	.0	.0	1.8
3-4	.0	1.9	5.4	.0	.0	.0	7.9	.0	.5	2.1	.0	.0	.0	.0	2.7
5-6	.0	.1	4.5	1.1	.0	.0	5.8	.0	.3	1.9	.0	.0	.0	.0	2.3
7	.0	.3	3.9	1.3	.5	.0	6.0	.0	.0	.4	.1	.0	.0	.0	.6
8-9	.0	.0	1.2	1.4	.2	.0	2.9	.0	.0	.3	.1	.0	.0	.0	.4
10-11	.0	.0	.7	2.1	.1	.0	3.0	.0	.0	.1	.3	.0	.0	.0	.4
12	.0	.1	.0	1.9	.1	.1	2.3	.0	.1	.0	.0	.0	.0	.0	.2
13-16	.0	.0	.1	2.0	.4	.0	2.5	.0	.0	.1	.2	.0	.0	.0	.3
17-19	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.5	16.9	11.2	2.1	.1	39.9	.2	2.6	5.7	.9	.0	.0	9.4	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	
1-2	.1	1.2	.8	.0	.0	.0	2.1	.1	1.6	.4	.0	.0	.0	.0	2.2	
3-4	.0	.2	.3	.2	.0	.0	.7	.0	.4	.7	.0	.0	.0	.0	1.1	
5-6	.0	.2	.9	.2	.0	.0	1.3	.0	.0	.8	.2	.0	.0	.0	1.0	
7	.0	.0	.3	.1	.0	.0	.5	.0	.0	.7	.2	.0	.0	.0	.9	
8-9	.0	.0	.5	.3	.1	.0	1.0	.0	.1	.1	.0	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.7	3.0	1.1	.3	.0	6.3	.1	2.7	2.9	.8	.0	.0	6.3	93.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.5	10.0	.4	.0	.0	.0	17.0	
1-2	1.2	11.7	4.6	.0	.0	.0	17.5	
3-4	.0	6.9	12.6	1.1	.0	.0	20.6	
5-6	.0	.9	10.4	2.0	.0	.0	13.4	
7	.0	.3	8.3	2.7	.8	.0	12.1	
8-9	.0	.1	2.8	2.6	.4	.0	6.0	
10-11	.0	.0	1.2	3.0	.3	.0	4.3	
12	.0	.3	.1	2.4	.1	.1	3.1	
13-16	.0	.0	.3	2.4	.7	.0	3.4	
17-19	.0	.0	.0	1.4	.0	.1	1.3	
20-22	.0	.0	.0	.1	.3	.0	.4	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	30.3	40.8	17.9	3.0	.3	100.0	737

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.6	8.6	4.8	3.6	2.1	1.3	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	288	5
6-7	.0	1.9	4.0	6.1	5.3	4.2	1.7	1.4	1.7	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	284	7
8-9	.0	.1	2.2	3.6	5.0	3.7	2.6	1.9	1.4	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	227	8
10-11	.0	.4	.4	1.6	.9	1.5	1.0	1.1	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	98	9
12-13	.0	.0	.3	.1	.2	.4	.7	.3	.8	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	30	10
>13	.0	.0	.0	.0	.4	.1	.4	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	11
INDEX	1.6	.8	2.9	1.0	2.4	.8	.8	.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	6
TOTAL	30	81	194	182	188	134	89	62	66	16	6	3	1	0	0	0	0	0	0	1034	7
PCT	2.8	7.7	18.4	17.3	17.8	12.7	8.4	5.9	6.3	1.3	.6	.5	.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1930-1972
(OVER-ALL) 1862-1972

AREA 0038 CAPE BLANCO
42.8N 125.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	1.4	.5	.0	.0	.0	.0	3.5	2.1	.0	2.8	.0	.9	.0	90.9
NE	2.1	1.7	.8	.0	.0	.0	.0	4.7	.0	.0	.8	.0	.0	.0	94.5
E	5.7	.0	.0	.0	.0	.0	.0	5.7	.0	.0	2.3	.0	.0	.0	92.0
SE	16.5	.0	10.6	.0	.0	.0	.0	19.7	2.1	.0	3.2	.0	.5	.0	74.5
S	19.1	3.8	11.8	.0	.0	.0	.0	32.8	4.4	.0	7.5	.0	2.1	.0	53.2
SW	8.6	6.1	9.5	.0	.0	.0	.0	24.3	7.7	.0	4.1	.0	.5	.0	63.5
W	4.9	7.9	4.9	.0	.0	.0	.0	16.1	16.5	.0	4.5	.0	.0	.0	62.9
NW	3.1	7.7	2.3	.0	.0	.0	.0	13.1	4.6	.0	1.9	.0	3.1	.0	77.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	10.1	3.9	6.9	.0	.0	.0	.0	19.7	9.0	.0	4.4	.0	1.2	.0	69.7
TOT OBS:	743														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	8.3	4.4	10.1	.0	.0	.0	.0	20.6	4.4	.0	3.9	.0	1.3	.0	69.7
06009	11.7	2.3	6.4	.0	.0	.0	.0	20.5	4.7	.0	5.3	.0	1.8	.0	67.8
12015	12.3	3.7	5.9	.0	.0	.0	.0	21.4	4.8	.0	4.3	.0	.0	.0	69.3
18021	7.6	4.7	3.5	.0	.0	.0	.0	14.1	5.9	.0	4.7	.0	1.8	.0	73.5
TOT PCT TOT OBS:	9.9 756	3.8	6.7	.0	.0	.0	.0	19.3	4.9	.0	4.5	.0	1.2	.0	70.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.4	3.6	7.4	2.2	.3	.0		14.0	14.9		15.9	13.8	13.8	9.6	12.8	15.8	15.1	11.3
NE	.6	2.4	3.7	.9	.2	.0		7.8	13.7		7.6	12.9	6.3	4.8	6.6	15.1	7.5	9.0
E	.3	.8	1.6	.1	.1	.0		2.9	12.0		1.8	.9	2.8	3.8	2.1	6.6	5.2	3.1
SE	.5	2.6	3.5	1.3	.2	.0		8.2	14.0		8.7	11.6	5.5	18.3	6.3	7.2	6.4	11.7
S	.2	5.0	13.7	9.1	3.4	1.0		32.4	21.2		34.1	27.2	31.5	29.8	28.7	31.6	34.5	35.2
SW	.3	3.2	5.9	4.4	.9	.0		14.6	18.6		11.3	9.5	16.4	19.2	21.5	7.2	11.9	14.1
W	.4	3.1	3.3	1.3	.2	.0		8.7	14.7		8.4	2.6	11.0	3.8	10.2	6.6	9.9	7.0
NW	.3	2.7	4.1	1.4	.7	.0		9.2	16.0		8.8	14.7	9.4	8.7	9.1	7.2	9.2	7.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		1.4	6.9	3.2	1.9	2.7	2.6	.7	1.6
TOT OBS	48	215	198	192	94	9	916		17.0		219	58	154	52	187	38	144	64
TOT PCT	5.2	23.5	45.4	21.0	5.9	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.9	7.2	4.3	.6	.0		14.0	14.9	15.4	12.7	13.3	13.9		
NE	1.7	3.3	2.2	.3	.0		7.8	13.7	8.8	5.9	8.0	7.9		
E	.6	1.9	.2	.1	.0		2.9	12.0	1.6	3.0	2.9	4.6		
SE	1.4	4.0	2.3	.3	.1		8.2	14.0	9.3	8.7	6.4	8.1		
S	2.2	10.1	12.0	6.4	1.8		32.4	21.2	34.2	31.1	29.2	34.7		
SW	1.3	5.1	5.1	2.9	.8		14.6	18.6	10.9	17.1	19.1	12.3		
W	1.2	4.9	1.6	.8	.1		8.7	14.7	7.2	9.2	9.6	9.0		
NW	1.4	4.1	2.6	1.0	.1		9.2	16.0	10.0	9.2	8.8	8.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.3						2.3	.0	2.3	2.9	2.7	1.0		
TOT OBS	129	372	278	118	19	916		17.0	277	206	229	208		
TOT PCT	14.1	40.6	30.3	12.9	2.1		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.5	3.2	20.9	48.0	17.3	6.5	1.4	16.8	100.0	277
0600	2.9	3.9	21.8	41.7	22.8	5.8	1.0	17.1	100.0	206
1200	2.7	2.7	26.2	40.0	21.3	6.2	.9	16.9	100.0	225
1800	1.0	1.9	25.5	42.8	23.6	4.8	.5	17.1	100.0	208
TOT	21	27	215	398	192	94	9	17.0		916
PCT	2.3	2.9	23.5	43.4	21.0	5.9	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.1	2.6	5.1	1.9		3.9
NE	4.4	1.5	1.3	.6		2.8
E	.7	.8	.4	1.2		4.8
SE	1.2	.2	1.6	2.4		5.6
S	1.6	1.3	7.8	21.7		7.1
SW	1.9	1.1	3.4	6.1		6.1
W	1.3	2.3	4.2	2.9		5.4
NW	1.0	1.5	4.3	2.8		5.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	.4		4.2
TOT OBS	93	59	142	199	493	5.6
TOT PCT	18.9	12.0	28.8	40.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.2	.2	1.3	1.9	.8	1.0	.4	.0	.0	9.9	
.0	.0	.0	.5	.8	.3	.0	.0	.2	.2	6.2	
.0	.0	.2	.0	.4	.6	.2	.0	.0	.0	1.7	
.2	.1	.1	.5	1.6	.2	.2	.2	.0	.0	2.4	
2.7	1.0	1.1	4.8	12.3	3.0	.6	.2	.0	.4	6.4	
1.0	.2	.5	1.6	2.9	1.1	.1	.0	.0	.0	3.2	
.2	.2	.6	1.4	2.5	.7	.0	.0	.0	.0	3.2	
.1	.1	.0	1.3	2.6	1.3	.1	.2	.0	.0	4.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.2	
21	8	13	56	128	39	10	5	1	3	209	493
4.3	1.6	2.6	11.4	26.0	7.9	2.0	1.0	.2	.6	42.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	2.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >2000	9.2	11.4	12.0	12.2	12.2	12.2	12.2	12.2
= OR >1000	26.1	33.7	36.9	38.0	38.0	38.0	38.0	38.0
= OR >600	31.7	42.8	47.6	49.0	49.0	49.0	49.0	49.0
= OR >300	32.1	44.6	49.6	51.2	51.2	51.2	51.2	51.2
= OR >150	32.5	45.6	50.6	52.8	52.8	52.8	52.8	52.8
= OR >0	32.5	46.4	52.4	55.2	55.4	55.6	56.8	56.8
TOTAL	162	291	261	275	276	277	283	283

TOTAL NUMBER OF OBS: 498

PCT FREQ NM <5/8: 43.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
12.8	5.7	8.5	6.8	8.7	4.3	8.3	7.6	34.0	341

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42.8N 129.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.5	
	NO PCP	.1	.1	.1	.0	.8	.1	.0	.0	.0	.0	1.2	
	TOT %	.1	.1	.1	.0	1.2	.3	.0	.0	.0	.0	1.8	
1/2<1	PCP	.0	.0	.0	.1	1.2	.5	.0	.0	.0	.0	1.8	
	NO PCP	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.5	
	TOT %	.3	.0	.0	.1	1.3	.5	.1	.0	.0	.0	2.3	
1<2	PCP	.0	.0	.0	.3	1.4	.2	.1	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.8	.2	.1	.1	.0	.0	1.2	
	TOT %	.0	.0	.0	.3	2.1	.3	.2	.1	.0	.0	3.1	
2<5	PCP	.1	.0	.0	.2	3.1	.9	.1	.3	.0	.0	4.7	
	NO PCP	.1	.0	.0	.0	.3	.5	.1	.0	.0	.1	1.2	
	TOT %	.2	.0	.0	.2	3.4	1.4	.3	.3	.0	.1	6.0	
5<10	PCP	.3	.2	.2	.6	4.0	1.4	.8	.3	.0	.0	8.0	
	NO PCP	1.7	1.7	.3	1.0	6.2	3.6	1.5	1.2	.0	.0	17.2	
	TOT %	2.0	1.9	.5	1.6	10.2	4.9	2.3	1.7	.0	.0	25.2	
10+	PCP	.1	.1	.0	.1	.9	.5	.4	.3	.0	.0	2.6	
	NO PCP	11.9	5.8	2.4	4.1	14.5	6.8	5.7	6.3	.0	1.6	59.1	
	TOT %	12.0	6.0	2.4	4.1	15.5	7.4	6.1	6.6	.0	1.6	61.7	
TOT OBS													
TOT PCT		14.4	8.0	2.4	4.4	33.7	14.8	9.0	8.8	.0	1.8	100.0	738

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.6	
	11-21	.1	.0	.0	.0	.2	.2	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.0	1.0	.3	.0	.0	.0	.0	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.2	.0	.0	.1	.4	.2	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	1.0	
	TOT %	.2	.0	.0	.1	1.2	.4	.1	.0	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.2	.1	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.2	.6	.0	.1	.1	.0	.0	1.1	
	22+	.0	.0	.0	.0	1.3	.3	.1	.0	.0	.0	1.7	
	TOT %	.0	.1	.0	.4	1.9	.3	.2	.1	.0	.0	3.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.4	
	11-21	.1	.0	.0	.1	1.2	.6	.1	.3	.0	.0	2.4	
	22+	.1	.0	.0	.2	2.1	.6	.1	.0	.0	.0	3.1	
	TOT %	.2	.0	.0	.3	3.4	1.5	.2	.3	.0	.1	6.0	
5<10	0-3	.0	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	
	4-10	.3	.4	.0	.4	.6	.7	.8	.3	.0	.0	3.2	
	11-21	.6	1.0	.4	1.1	4.4	2.0	1.0	.4	.0	.0	10.9	
	22+	.8	.2	.1	.4	5.0	1.7	.5	.7	.0	.0	9.3	
	TOT %	1.7	1.7	.4	1.9	10.0	4.5	2.2	1.5	.0	.0	24.0	
10+	0-3	.4	.3	.1	.5	.1	.1	.2	.2	.0	1.8	3.8	
	4-10	3.1	1.9	.8	1.9	3.8	2.2	2.5	2.3	.0	.0	18.6	
	11-21	6.5	2.9	1.3	1.9	7.3	3.0	2.5	2.8	.0	.0	28.3	
	22+	1.8	1.0	.1	.5	4.4	2.7	.9	1.3	.0	.0	12.7	
	TOT %	11.9	6.1	2.3	4.9	15.6	8.1	6.0	6.6	.0	1.8	63.4	
TOT OBS													
TOT PCT		14.1	8.0	2.8	7.7	33.1	15.0	8.8	8.5	.0	1.9	100.0	835

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

MDUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	4.4	1.9	1.3	10.0	21.3	12.3	3.1	.0	.6	.6	55.6	44.4	160
06009	4.1	.8	1.7	11.6	25.6	5.8	.0	.8	.0	.8	51.2	48.8	121
12015	1.7	2.6	4.3	12.2	30.4	4.3	1.7	1.7	.0	.9	60.0	40.0	115
18021	5.8	.8	3.3	9.9	23.1	7.4	3.3	1.7	.0	.0	55.4	44.6	121
TOT	21	8	13	56	128	41	11	5	1	3	287	230	517
PCT	4.1	1.5	2.5	10.8	24.8	7.9	2.1	1.0	.2	.6	55.5	44.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MDUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	1.9	2.3	6.5	5.0	22.2	62.1	261
06009	1.1	2.1	3.7	3.2	23.8	66.1	189
12015	.9	2.3	.5	8.9	26.8	60.6	213
18021	2.7	1.6	.5	6.4	23.0	65.8	187
TOT	14	18	26	50	203	539	850
PCT	1.6	2.1	3.1	5.9	23.9	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

MDUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	4.5	8.3	22.3	35.0	42.7	157
06009	4.5	5.4	21.6	31.5	46.8	111
12015	1.8	8.8	28.9	32.5	38.6	114
18021	5.2	9.5	22.4	35.3	42.2	116
TOT	20	40	118	168	212	498
PCT	4.0	8.0	23.7	33.7	42.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
05/69	.0	.0	.0	.0	.4	.2	.0	.0	3	.6
06/64	.0	.0	.2	.6	.2	.6	.2	.0	9	1.8
55/59	.0	.0	.2	.4	.2	4.9	4.9	2.3	66	12.9
50/54	.0	.0	.2	1.0	4.9	10.6	17.8	18.0	268	32.4
45/49	.0	.0	.0	.8	5.3	7.8	6.8	5.3	133	26.0
40/44	.0	.0	.0	.2	1.8	1.0	2.5	.4	30	5.9
35/39	.0	.0	.0	.0	.2	.2	.0	.0	2	.4
TOTAL	0	0	3	15	86	129	195	133	511	100.0
PCT	.0	.0	.6	2.9	12.9	25.2	32.3	26.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
05/69	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0
06/64	.6	.2	.0	.0	.5	.0	.4	.0	.0	.0
55/59	.3	.6	.2	1.7	6.2	2.8	.3	.4	.0	.2
50/54	7.3	3.0	1.3	3.3	17.9	9.6	5.2	3.7	.0	1.2
45/49	4.2	2.5	1.1	2.8	6.0	2.4	2.9	3.9	.0	.2
40/44	1.1	.8	.3	.6	.1	.6	1.2	.8	.0	.2
35/39	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	13.7	7.6	2.9	8.6	30.9	15.5	10.2	8.8	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MDUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	66	63	58	52	45	41	32	51.6	285
06009	64	61	57	51	43	37	33	50.5	205
12015	59	57	56	51	43	34	29	50.3	228
18021	69	64	57	52	45	35	28	51.4	207
TOT	69	62	57	51	44	39	28	51.0	925

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MDUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	3.9	14.3	26.0	31.2	24.7	81	154
06009	.0	4.3	13.8	23.3	34.5	24.1	81	116
12015	.0	.8	9.0	23.0	40.2	27.0	83	122
18021	.0	4.9	14.6	28.5	23.6	28.8	80	123
TOT	0	18	67	130	166	134	81	515

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42.8N 125.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	M FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.1	5	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	.0	.0	6	.1	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	4	.0	.6
6	.0	.0	.0	.0	.0	.0	.1	.3	.6	.0	.0	.0	7	.0	1.0
5	.0	.0	.0	.0	.0	.1	.1	.6	1.3	.0	.0	.0	16	.0	2.4
4	.0	.0	.0	.0	.0	.0	.1	3.0	1.0	.0	.0	.0	28	.0	4.2
3	.0	.0	.0	.0	.0	.0	.3	2.5	.4	.1	.0	.0	23	.1	3.3
2	.0	.0	.0	.0	.0	.1	1.6	7.9	.0	.0	.0	.0	65	.7	8.9
1	.0	.0	.0	.0	.0	.1	1.2	5.5	.4	.1	.0	.0	50	.3	7.1
0	.0	.0	.0	.0	.0	.3	6.3	7.3	.1	.3	.0	.0	98	.6	13.9
-1	.0	.0	.0	.0	.1	.3	3.3	3.6	.1	.0	.0	.0	65	1.3	8.3
-2	.0	.0	.0	.0	.0	1.6	7.0	1.2	.0	.0	.0	.0	66	.6	9.2
-3	.0	.0	.0	.0	.0	2.1	5.0	1.2	.0	.0	.0	.0	56	.3	8.0
-4	.0	.0	.0	.0	.0	3.1	4.0	.1	.1	.0	.0	.0	50	.1	7.3
-5	.0	.0	.0	.0	.1	3.3	2.4	.0	.0	.0	.0	.0	39	.1	5.6
-6	.0	.0	.0	.0	.6	2.3	1.5	.0	.0	.0	.0	.0	31	.1	4.5
-7/-8	.0	.0	.0	.0	2.5	2.7	.4	.1	.0	.0	.0	.0	39	.0	5.8
-9/-10	.0	.0	.0	.0	1.3	.4	.1	.1	.0	.0	.0	.0	14	.0	2.1
-11/-13	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	3	.1	.3
-14/-16	.0	.0	.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	4	.0	.6
-17/-19	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	2	2	33	114	246	228	33	10	2	1	674	32	642
PCT	.1	.3	.3	.3	4.9	16.9	36.5	33.8	4.9	1.5	.3	.1	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1903-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.8	.3	.1	.0	.0	.0	.0	.0	.4	.3
1-2	.0	1.3	1.3	.0	.0	.0	2.6	.3	.6	.4	.0	.0	.0	.0	1.3	.3
3-4	.3	.9	2.9	.3	.0	.0	4.4	.0	.4	.8	.0	.0	.0	.0	1.1	.3
5-6	.0	.0	1.8	.3	.2	.0	2.3	.0	.0	1.4	.6	.0	.0	.0	2.0	.3
7	.0	.3	1.5	.6	.0	.0	2.3	.0	.0	1.0	.6	.0	.0	.0	1.5	.3
8-9	.0	.0	.0	.3	.3	.0	.6	.0	.0	.1	.3	.0	.0	.0	.4	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.3
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	7.7	1.9	.5	.0	13.4	.6	1.1	3.6	1.8	.3	.0	.0	7.2	.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.3
1-2	.0	.0	.8	.0	.0	.0	.8	.0	.2	.1	.0	.0	.0	.0	.3	.3
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	1.7	.0	.0	.0	.0	2.0	.3
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.1	.1	.0	.0	.6	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.1	.0	.0	.0	.1	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
TOT PCT	.0	.0	1.8	.2	.0	.0	2.0	.0	.9	2.2	.4	.1	.0	.0	3.7	.3

PERIOD: (OVER-ALL) 1963-1972

DECEMBER
TABLE 18 (CONT)AREA 0038 CAPE BLANCO
42.8N 123.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.0	.0	.0	.0		.7	.3	.4	.0	.0	.0	.0		.6
1-2	.0	2.4	1.3	.0	.0	.0		3.7	.0	1.3	.3	.0	.0	.0		1.5
3-4	.0	1.8	3.0	.3	.0	.0		5.1	.0	.7	1.1	.3	.0	.0		2.0
5-6	.0	.0	4.6	1.9	.2	.0		6.7	.0	.0	2.4	1.8	.3	.0		4.4
7	.0	.0	2.4	2.5	.6	.0		5.4	.0	.0	1.9	.6	.3	.0		2.8
8-9	.0	.0	1.8	1.3	1.7	.3		5.1	.0	.0	.1	1.5	.0	.0		1.6
10-11	.0	.0	.6	.4	1.1	.0		2.0	.0	.0	.3	.4	.1	.0		.8
12	.0	.0	.6	.5	.8	.0		1.9	.0	.0	.0	.4	.0	.0		.4
13-16	.0	.0	.3	1.4	1.6	.3		3.6	.0	.0	.3	.0	.1	.0		.4
17-19	.0	.0	.0	.6	.0	.6		1.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.3	.5	.0		.8	.0	.0	.0	.0	.3	.0		.3
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.8	14.5	9.1	6.5	1.1		36.1	.3	2.3	6.3	5.0	1.0	.0		14.8

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.2	.0	.0	.0	.0		.2	.3	.1	.0	.0	.0	.0		.4	
1-2	.0	2.5	.6	.0	.0	.0		3.0	.0	1.3	.4	.0	.0	.0		1.7	
3-4	.0	.5	1.3	.0	.0	.0		1.8	.0	1.1	1.5	.0	.0	.0		2.5	
5-6	.0	.3	1.9	.4	.0	.0		2.6	.0	.3	1.0	.4	.1	.0		1.7	
7	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.1	.0	.0	.0		.1	
8-9	.0	.0	.3	.2	.0	.0		.5	.0	.0	.6	.3	.3	.0		1.1	
10-11	.0	.0	.0	.6	.0	.0		.6	.0	.0	.3	.3	.0	.0		.6	
12	.0	.0	.0	.5	.2	.0		.7	.0	.0	.0	.9	.4	.0		1.3	
13-16	.0	.0	.3	.3	.0	.0		.6	.0	.0	.0	.9	.3	.0		.3	
17-19	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.4	5.3	2.2	.2	.0		11.2	.3	2.7	3.9	1.8	1.0	.0		9.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	2.5	.3	.0	.0	.0	5.8	
1-2	.3	9.7	5.0	.0	.0	.0	15.0	
3-4	.3	5.6	12.5	.8	.0	.0	19.2	
5-6	.0	.6	13.6	5.6	.8	.0	20.6	
7	.0	.3	7.8	4.2	.8	.0	13.1	
8-9	.0	.0	3.1	4.2	2.2	.3	9.7	
10-11	.0	.0	1.1	2.2	1.1	.0	4.5	
12	.0	.0	.6	2.5	1.4	.0	4.5	
13-16	.0	.0	.8	1.7	2.2	.3	5.0	
17-19	.0	.0	.0	.8	.0	.6	1.4	
20-22	.0	.0	.0	.3	.8	.0	1.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	18.7	44.8	22.3	9.5	1.1	100.0	359

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	3.5	5.9	5.9	3.2	2.2	.4	1.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	5
6-7	.0	.2	3.3	5.4	7.1	5.0	3.7	1.1	1.3	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	155	8
8-9	.0	.2	2.0	3.7	3.0	3.2	3.7	1.9	2.8	.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	119	9
10-11	.0	.0	.4	1.3	1.1	2.2	2.0	.9	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	46	9
12-13	.0	.0	.2	.4	.9	.9	1.3	.4	.7	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	30	11
>13	.0	.0	.0	.0	.0	.2	.0	.4	.4	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	10	16
INDEX	1.3	.4	.6	1.3	.6	.7	.2	1.3	2.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	49	8
TOTAL	10	23	67	97	85	78	61	38	45	18	10	1	5	0	0	0	0	0	0	538	8
PCT	1.9	4.3	12.5	18.0	15.8	14.5	11.3	7.1	8.4	3.3	1.9	.2	.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

ANNUAL

TABLE 1

AREA 0038 CAPE BLANCO
42.9N 125.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA														
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA														
N	1.1	.8	1.6	.0	.0	.0	.2	3.3	1.3	.1	5.5	.4	2.6	.1	86.8														
NE	1.7	.8	2.5	.0	.1	.0	.0	4.7	1.2	.1	5.9	.2	1.7	.2	86.0														
E	4.4	.1	3.3	.0	.1	.0	.0	8.2	2.4	.0	13.6	.0	2.7	.0	73.1														
SE	10.7	1.7	9.4	.0	.1	.0	.4	18.9	4.0	.1	13.2	.5	1.1	.0	62.1														
S	12.8	2.7	7.9	.0	.0	.0	.0	22.0	5.6	.2	10.1	.3	2.0	.1	59.9														
SW	8.0	4.0	7.1	.0	.0	.0	.1	18.5	6.3	.1	8.2	.5	1.1	.0	65.4														
W	5.5	3.9	3.6	.0	.1	.0	.2	12.8	6.4	.4	4.7	.2	1.3	.0	74.4														
NW	2.3	2.5	2.4	.0	.0	.0	.0	7.0	3.1	.3	5.8	.4	2.0	.1	81.2														
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0														
CALM	.3	.7	2.1	.0	.0	.0	.0	3.0	.4	.0	16.9	1.9	1.8	.0	75.9														
TOT PCT	5.4	2.0	4.3	.0	.0	.0	.1	11.2	3.3	.1	7.5	.4	2.2	.1	75.2														
TOT OBS: 11750																													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

LIST OF WEATHER OCCURRENCE BY HOUR															
HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	4.6	1.7	4.0	.0	.0	.0	.1	9.7	2.8	*	7.5	.4	2.6	.1	76.9
06009	5.7	1.8	4.5	.0	.0	.0	.1	11.8	3.5	.2	6.1	.6	1.4	.0	76.5
12015	6.6	2.6	4.9	.0	.0	.0	.0	13.6	3.1	.3	7.7	.4	1.8	.1	73.0
18021	4.8	1.9	3.8	.0	.1	.0	.1	9.9	3.8	.0	8.8	.4	2.7	.0	74.3
TOT PCT	5.4	2.0	4.3	.0	*	.0	.1	11.1	3.3	.1	7.6	.4	2.2	.1	75.1
TOT OBS: 11978															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	1.0	9.1	15.9	6.3	.9	.0	.0	33.2	15.4	34.5	36.0	32.6	34.3	31.9	31.9	33.2
NE	.3	2.3	2.4	.7	.1	.0	.0	3.8	13.0	3.9	4.5	5.3	5.6	8.5	9.1	6.9
E	.3	1.0	.6	.1	.0	.0	.0	2.0	9.5	1.1	1.6	1.6	1.8	2.1	3.0	2.7
SE	.4	2.2	1.6	.5	.1	.0	.0	4.9	11.5	3.7	5.9	3.7	7.6	4.9	7.9	4.7
S	.7	5.6	7.9	3.8	1.2	.2	.0	19.4	15.0	19.7	15.6	20.9	15.6	19.0	17.6	21.2
SW	.4	3.3	3.5	1.5	.2	.0	.0	8.9	13.1	10.2	7.8	8.9	7.5	9.3	6.2	7.7
W	.5	3.4	2.5	.7	.1	.0	.0	7.2	11.2	8.3	6.4	7.4	7.0	6.2	7.9	10.3
NW	.7	5.8	5.4	1.4	.2	.0	.0	13.6	12.9	14.4	18.2	13.5	15.7	13.1	13.6	12.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	4.3	4.0	6.0	4.9	7.1	2.9	4.4
TOT OBS	9.4	32.6	39.8	14.9	2.9	.3	14006	100.0	13.9	3226	688	2484	605	2722	697	2686
TOT PCT	9.4	32.6	39.8	14.9	2.9	.3	14006	100.0	13.9	3226	688	2484	605	2722	697	2686

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	15
N	4.2	14.6	11.6	2.7	.1	33.2	15.4	34.9	33.1	31.9	32.8	32.8
NE	1.3	2.8	1.4	.3	.0	3.8	13.0	4.1	5.4	7.0	6.9	6.9
E	.8	.9	.2	.1	.0	2.0	9.5	1.2	1.6	2.3	3.1	3.1
SE	1.4	2.3	.9	.3	.0	4.9	11.5	4.1	4.4	5.5	5.4	5.4
S	2.9	7.7	6.0	2.3	.4	19.4	15.0	18.9	19.7	18.6	20.4	20.4
SW	1.6	4.1	2.4	.7	.0	8.9	13.1	9.8	8.6	8.8	8.3	8.3
W	1.8	3.8	1.3	.3	.0	7.2	11.2	7.9	7.4	6.6	7.0	7.0
NW	3.2	6.9	2.9	.6	.1	13.6	12.9	15.0	14.0	13.1	12.2	12.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0	.0	.0	.0	.0	5.0	.0	4.2	5.9	6.3	3.9	3.9
TOT OBS	22.2	43.1	26.6	7.3	.8	14006	13.9	3914	3089	3419	3584	3584
TOT PCT	22.2	43.1	26.6	7.3	.8	14006	13.9	3914	3089	3419	3584	3584

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	4.2	4.0	29.6	42.6	15.9	3.5	.2	14.6	100.0	3914
0600	5.9	4.3	33.3	38.8	14.8	2.6	.3	13.7	100.0	3089
1200	6.3	4.6	34.0	38.7	14.0	2.1	.3	13.3	100.0	3419
1800	3.9	4.9	34.0	38.7	14.8	3.4	.2	14.0	100.0	3384
TOT								13.9		14006
PCT	5.0	4.4	32.6	39.8	14.9	2.9	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER
N	15.4	3.9	6.8	7.8	3.6
NE	2.6	.9	1.2	1.3	3.9
E	.6	.3	.4	.8	4.5
SE	.6	.3	.9	2.1	6.2
S	1.6	1.2	4.5	12.4	6.6
SW	1.0	.8	2.8	4.0	6.2
W	.9	1.3	2.9	2.2	5.5
NW	3.6	2.0	3.7	3.6	4.8
VAR	.0	.0	.0	.0	.0
CALM	1.2	.7	1.0	2.8	5.3
TOT OBS				8726	5.0
TOT PCT	27.5	11.3	24.2	36.9	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
1.2	.1	.7	2.1	4.1	3.1	.7	.1	.2	.1	21.4	
.2	.1	.3	.8	.5	.1	.1	.1	.1	.1	3.8	
.1	.0	.1	.1	.3	.3	.1	.1	.1	.1	1.0	
.3	.1	.2	.4	.7	.5	.1	.1	.1	.1	1.4	
1.5	.4	1.3	2.8	4.5	3.3	.5	.2	.2	.2	4.8	
.5	.2	.5	1.1	1.9	1.2	.2	.1	.1	.1	2.9	
.1	.1	.4	.8	1.5	1.0	.3	.1	.1	.1	3.0	
.4	.1	.2	1.0	2.3	1.6	.3	.1	.1	.1	6.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.1	.3	.6	.9	.3	.1	.1	.1	.1	2.3	
5.1	1.0	3.5	8.9	16.6	12.4	2.6	.8	.9	.6	47.6	8726
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.0	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.6	2.1	2.2	2.2	2.2	2.2	2.3	2.3
= OR >3500	3.5	4.6	4.9	4.9	4.9	4.9	4.9	4.9
= OR >2000	12.0	16.2	17.1	17.2	17.3	17.3	17.3	17.3
= OR >1000	22.5	31.2	33.1	33.7	33.8	33.8	33.9	33.9
= OR >600	27.1	38.9	41.7	42.5	42.7	42.7	42.8	42.8
= OR >300	28.2	41.3	44.8	45.9	46.2	46.2	46.3	46.3
= OR >150	28.4	41.7	45.6	46.8	47.1	47.2	47.3	47.3
= OR >0	28.6	42.4	46.8	48.3	49.4	50.5	52.0	52.3

TOTAL NUMBER OF OBS: 8844

PCT FREQ NM <5/8: 47.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.7	7.7	8.4	6.8	5.1	4.8	7.1	8.2	28.6	9352

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1856-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.9	.1	.0	.1	.7	.2	.1	.2	.0	.6	3.0	
	TOT %	.9	.1	.0	.2	.8	.2	.1	.3	.0	.7	3.3	
1/2<1	PCP	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.5	
	NO PCP	.4	.1	.0	.1	.2	.1	.0	.1	.0	.0	1.1	
	TOT %	.5	.1	.0	.1	.4	.2	.1	.2	.0	.0	1.5	
1<2	PCP	.1	.0	.0	.1	.6	.2	.1	.0	.0	.0	1.1	
	NO PCP	.3	.0	.0	.1	.3	.1	.1	.1	.0	.1	1.1	
	TOT %	.4	.1	.0	.1	.9	.3	.1	.2	.0	.1	2.2	
2<5	PCP	.2	.1	.0	.2	1.4	.4	.2	.1	.0	.0	2.5	
	NO PCP	.7	.1	.0	.2	.8	.3	.2	.4	.0	.1	2.8	
	TOT %	.9	.2	.1	.3	2.2	.8	.4	.5	.0	.1	5.4	
5<10	PCP	.4	.2	.1	.3	1.9	.8	.5	.4	.0	.1	4.7	
	NO PCP	6.6	1.0	.3	.8	3.9	1.8	1.1	2.4	.0	.9	18.7	
	TOT %	7.0	1.2	.4	1.1	5.7	2.5	1.6	2.8	.0	1.0	23.4	
10+	PCP	.2	.1	.1	.2	.8	.3	.3	.2	.0	.0	2.0	
	NO PCP	23.8	4.2	1.3	2.3	9.2	4.5	4.7	9.2	.0	2.8	62.2	
	TOT %	24.0	4.2	1.4	2.5	9.9	4.8	5.0	9.5	.0	2.9	64.2	
TOT OBS													11711
TOT PCT													39.6 9.8 2.0 4.4 20.0 8.8 7.3 13.3 .0 4.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.7	.9	
	4-10	.3	.1	.0	.1	.4	.1	.1	.4	.0		1.2	
	11-21	.4	.0	.0	.0	.2	.1	.0	.1	.0		.9	
	22+	.1	.0	.0	.0	.2	.0	.0	.0	.0		.3	
	TOT %	.9	.1	.0	.2	.8	.2	.1	.3	.0	.7	3.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.0	.0	.0	.1	.0	.0	.1	.0		.5	
	11-21	.2	.0	.0	.0	.1	.1	.0	.1	.0		.5	
	22+	.1	.0	.0	.0	.2	.0	.0	.0	.0		.3	
	TOT %	.5	.1	.0	.1	.4	.2	.1	.2	.0	.1	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.1	.1	.1	.1	.1	.0		.5	
	11-21	.1	.0	.0	.4	.1	.0	.1	.1	.0		.8	
	22+	.1	.0	.0	.4	.1	.0	.0	.0	.0		.7	
	TOT %	.4	.1	.0	.2	.9	.3	.1	.1	.0	.1	2.2	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.2	.4	
	4-10	.3	.1	.0	.1	.4	.2	.1	.2	.0		1.5	
	11-21	.4	.0	.0	.1	.9	.3	.1	.2	.0		2.1	
	22+	.2	.0	.0	.1	.9	.2	.1	.0	.0		1.6	
	TOT %	.9	.2	.1	.3	2.2	.7	.4	.5	.0	.2	5.3	
5<10	0-3	.2	.1	.1	.1	.1	.1	.1	.1	.0	1.1	1.9	
	4-10	1.5	.3	.2	.4	1.3	.8	.7	1.0	.0		6.2	
	11-21	3.0	.5	.1	.4	2.4	1.0	.6	1.1	.0		9.3	
	22+	2.1	.2	.0	.2	1.8	.8	.2	.5	.0		5.7	
	TOT %	6.9	1.1	.4	1.2	5.6	2.4	1.6	2.7	.0	1.1	23.0	
10+	0-3	.6	.2	.1	.2	.4	.2	.3	.5	.0	3.0	5.3	
	4-10	6.6	1.8	.8	1.3	3.4	2.1	2.4	4.2	.0		22.5	
	11-21	12.1	1.8	.4	.9	4.1	1.8	1.8	3.8	.0		26.7	
	22+	4.9	.5	.1	.2	1.9	.8	.4	1.0	.0		9.8	
	TOT %	24.2	4.3	1.4	2.6	9.7	4.9	4.9	9.5	.0	3.0	64.3	
TOT OBS													12954
TOT PCT													33.7 9.8 2.0 4.6 19.7 8.8 7.2 13.3 .0 5.0 100.0

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	4.0	.8	2.9	8.6	14.2	13.1	3.1	.7	1.0	.6	49.0	51.0	2552
06009	4.9	.9	3.3	8.8	15.6	10.9	1.7	.6	.5	.7	48.0	52.0	2125
12015	6.1	1.1	3.4	8.6	18.8	12.3	2.4	.8	1.3	.6	55.4	44.6	1919
18021	5.5	1.1	4.3	9.0	16.6	12.2	3.0	1.0	.6	.6	53.9	46.1	2442
TOT PCT	5.1	1.0	3.5	8.8	16.2	12.2	2.6	.7	.8	.6	51.5	48.5	9038 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.9	1.6	2.1	5.7	23.0	64.6	3681
06009	2.7	1.1	2.2	4.7	22.5	66.7	2967
12015	3.9	1.8	2.4	5.7	24.0	62.2	3208
18021	3.9	1.5	1.9	5.8	23.0	63.8	3335
TOT PCT	3.4	1.5	2.2	5.5	23.2	64.2	13191 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	4.0	8.3	20.3	30.7	49.0	2500
06009	5.0	9.5	21.7	28.0	50.3	2074
12015	6.2	11.3	23.9	33.6	42.5	1884
18021	5.4	11.6	23.7	32.5	43.8	2386
TOT PCT	5.1	10.1	22.3	31.2	46.5	8844 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
73/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.1	.1	.1	.1	.0	.3	.3
65/69	.0	.0	.1	.4	.7	.6	.3	.0	2.1	2.1
60/64	.0	.0	.1	.2	1.5	3.5	5.0	2.7	13.1	13.1
55/59	.0	.0	.0	.4	1.5	5.9	12.4	9.1	29.5	29.5
50/54	.0	.0	.1	.6	2.7	6.3	13.9	12.4	36.0	36.0
45/49	.0	.0	.1	.5	1.9	4.6	4.9	4.0	16.0	16.0
40/44	.0	.0	.0	.2	.6	.6	.8	.6	2.8	2.8
35/39	.0	.0	.0	.0	.0	.0	.1	.0	.2	.2
30/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL PCT	.0	.1	.3	2.1	8.7	21.8	37.9	29.2	7797	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
.9	.1	.0	.0	.1	.2	.1	.5	.0	.1
5.6	.6	.2	.4	1.8	.7	.9	2.4	.0	.5
11.9	1.4	.4	1.5	5.5	2.1	1.4	4.3	.0	1.1
10.7	1.8	.7	2.1	9.0	2.7	2.8	3.9	.0	1.2
4.1	1.0	.5	.9	3.0	1.8	2.1	2.5	.0	.2
.6	.4	.1	.2	.4	.3	.4	.5	.0	.1
.1	.1	.0	.0	.0	.0	.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34.0	5.4	1.9	5.1	19.8	8.8	7.8	14.0	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	65	61	55	49	45	32	55.1	3934
06009	70	61	58	53	47	45	33	53.2	3132
12015	76	60	58	53	47	43	29	52.7	3472
18021	73	64	61	55	49	45	28	54.5	3602
TOT	76	63	60	54	48	45	28	53.9	14140

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	12.4	25.7	36.2	22.5	81	2193
06009	.0	1.5	6.1	19.2	38.9	34.3	85	1820
12015	.0	1.1	5.2	17.3	40.5	35.9	86	1782
18021	.1	3.5	10.1	23.9	35.8	26.6	82	2137
TOT	1	10.1	68.0	172.4	201.4	233.2	83	7932

PERIOD: (PRIMARY) 1930-1974
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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	69	73	TOT	M FOG	MO FOG
	28	32	36	40	44	48	52	56	60	64	68	72	76			
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	33	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.2	.1	.0	90	.0	.8
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.5	.6	.2	.1	.0	175	.2	1.5
7/8	.0	.0	.0	.0	.0	.1	.0	.5	1.2	.8	.4	.1	.0	348	.3	2.8
6	.0	.0	.0	.0	.0	.0	.1	.7	1.0	.5	.2	.0	.0	277	.2	2.4
5	.0	.0	.0	.0	.0	.0	.1	1.5	1.7	.9	.1	.0	.0	472	.3	3.9
4	.0	.0	.0	.0	.0	.1	.4	2.5	1.5	.7	.2	.0	.0	597	.5	4.9
3	.0	.0	.0	.0	.0	.1	.8	2.7	2.0	.8	.2	.0	.0	716	.6	6.0
2	.0	.0	.0	.0	.0	.2	2.1	4.0	2.6	1.1	.2	.0	.0	1124	1.0	9.1
1	.0	.0	.0	.0	.0	.2	2.9	3.7	2.5	1.0	.1	.0	.0	1176	.8	9.6
0	.0	.0	.0	.0	.0	.7	5.4	4.2	2.4	.7	.1	.0	.0	1505	1.1	12.5
-1	.0	.0	.0	.0	.0	1.0	4.1	3.2	1.6	.6	.0	.0	.0	1177	.8	9.8
-2	.0	.0	.0	.0	.0	2.0	3.8	2.0	1.3	.4	.0	.0	.0	1059	.6	9.0
-3	.0	.0	.0	.0	.0	.1	2.0	2.3	1.3	.7	.2	.0	.0	729	.5	6.2
-4	.0	.0	.0	.0	.0	.2	1.9	1.6	.7	.3	.1	.0	.0	529	.3	4.5
-5	.0	.0	.0	.0	.0	.4	1.3	1.1	.4	.3	.1	.0	.0	372	.1	3.4
-6	.0	.0	.0	.0	.0	.7	.9	.5	.1	.1	.0	.0	.0	241	.1	2.3
-7/-8	.0	.0	.0	.1	.4	.2	.2	.0	.0	.0	.0	.0	.0	221	.1	2.1
-9/-10	.0	.0	.0	.1	.4	.2	.2	.0	.0	.0	.0	.0	.0	86	.0	.9
-11/-13	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	42	.0	.4
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL														10998		
PCT	.0	.0	.1	.5	2.6	11.5	25.9	27.8	20.0	9.1	2.1	.4	.1	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.1	.2	.0	.0	.0	2.7	.2	.6	.0	.0	.0	.0	.8
1-2	.1	3.8	3.1	.0	.0	.0	7.0	.0	1.1	.5	.0	.0	.0	1.6
3-4	.1	2.3	6.0	.8	.0	.0	9.3	.0	.4	.8	.1	.0	.0	1.3
5-6	.0	.6	2.2	1.4	.2	.0	6.5	.0	.1	.7	.2	.0	.0	1.0
7	.0	.1	2.1	1.6	.3	.0	4.1	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.0	.8	.9	.1	.0	1.9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.5	.6	.1	.0	1.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	9.0	17.1	5.9	.9	.0	33.6	.2	2.2	2.4	.6	.1	.0	5.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.4	.2	.6	.1	.0	.0	.0	.8
1-2	.0	.4	.3	.0	.0	.0	.7	.0	.9	.4	.0	.0	.0	1.3
3-4	.0	.2	.2	.1	.0	.0	.4	.0	.3	.3	.0	.0	.0	.8
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.1	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.5	.2	.0	.0	1.7	.2	1.8	1.3	.5	.1	.0	3.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0038 CAPE BLANCO
42.9N 125.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.7	.1	.0	.0	.0		2.1	.1	.8	.0	.0	.0	.0		.9
1-2	.2	2.0	1.5	.0	.0	.0		3.6	.1	1.5	.5	.0	.0	.0		2.1
3-4	.0	1.2	2.7	.5	.0	.0		4.4	.0	.7	.9	.1	.0	.0		1.7
5-6	.0	.3	2.3	.8	.1	.0		3.5	.0	.2	1.0	.4	.1	.0		1.6
7	.0	.1	1.1	.8	.2	.0		2.3	.0	.0	.5	.2	.0	.0		.8
8-9	.0	.0	.5	.7	.2	.0		1.5	.0	.0	.1	.3	.0	.0		.5
10-11	.0	.0	.3	.4	.3	.0		1.0	.0	.0	.1	.2	.0	.0		.3
12	.0	.0	.1	.4	.2	.0		.7	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	.1	.4	.4	.1		1.0	.0	.0	.1	.0	.0	.0		.1
17-19	.0	.0	.0	.2	.1	.1		.3	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	5.2	8.6	4.3	1.8	.3		20.8	.2	3.2	3.3	1.3	.2	.0		8.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.8	.1	.0	.0	.0		1.0	.4	1.3	.1	.0	.0	.0		1.7
1-2	.1	1.4	.3	.0	.0	.0		1.8	.2	2.4	1.0	.0	.0	.0		3.5
3-4	.0	.6	.8	.1	.0	.0		1.4	.1	1.4	2.2	.1	.0	.0		3.8
5-6	.0	.2	.8	.1	.0	.0		1.1	.0	.4	1.2	.2	.0	.0		1.8
7	.0	.0	.3	.1	.0	.0		.4	.0	.1	.5	.2	.1	.0		.9
8-9	.0	.0	.3	.1	.0	.0		.4	.0	.0	.3	.3	.0	.0		.6
10-11	.0	.0	.1	.0	.0	.0		.2	.0	.0	.1	.2	.0	.0		.4
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.2
13-16	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.1	2.6	.6	.0	.0		6.7	.6	5.5	5.4	1.3	.3	.0		13.1 93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	8.2	.5	.0	.0	.0	17.2	
1-2	.9	13.3	7.6	.0	.0	.0	21.8	
3-4	.2	7.0	14.0	1.8	.0	.0	23.0	
5-6	.0	1.9	10.3	3.3	.4	.0	15.9	
7	.0	.4	4.9	3.2	.6	.0	9.1	
8-9	.0	.2	2.2	2.5	.4	.0	5.3	
10-11	.0	.0	1.2	1.6	.5	.0	3.3	
12	.0	.1	.2	1.1	.3	.0	1.7	
13-16	.0	.0	.2	.8	.6	.1	1.8	
17-19	.0	.0	.0	.3	.1	.1	.5	
20-22	.0	.0	.0	.0	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	31.1	41.1	14.5	3.3	.4	100.0	5967

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.1	6.8	10.0	7.2	3.9	2.0	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3030	4
6-7	.0	1.8	5.6	6.8	3.4	3.5	2.2	1.0	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	2329	6
8-9	.0	.9	2.4	4.0	3.8	2.7	2.1	.9	1.1	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	1682	7
10-11	.0	.6	.9	1.2	1.4	1.3	.9	.9	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	717	8
12-13	.0	.0	.6	.3	.5	.3	.5	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	266	9
>13	.0	.0	.0	.2	.1	.2	.2	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	125	11
INDET	2.2	.8	1.2	1.0	.9	.7	.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	769	5
TOT PCT	3.3	10.8	20.7	20.7	16.0	10.7	7.4	4.0	4.1	1.2	.7	.2	.2	.0	.0	.0	.0	.0	.0	9118	6

PERIOD: (PRIMARY) 1930-1974
(OVER-ALL) 1858-1974

AREA 0038 CAPE BLANCO
42.9N 123.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
69/70	.0	.0	.0	.0	.0	.0	.2	.6	.1	.0	.0	.0	8	.1
67/68	.0	.0	.0	.0	.0	.0	.4	.7	.7	.2	.0	.0	20	.2
65/66	.0	.0	.0	.0	.0	.4	.8	3.9	1.9	.2	.1	.2	73	.6
63/64	.0	.0	.0	.0	.0	1.2	4.1	10.9	5.5	1.0	.1	.3	231	1.7
61/62	.1	.1	.1	.0	.3	3.4	7.3	13.3	9.4	4.5	.3	.6	417	3.2
59/60	.2	.3	.2	.0	.6	10.9	14.6	15.4	19.4	11.3	2.4	.2	837	6.3
57/58	.9	.5	.5	.9	3.8	19.5	15.5	13.3	17.9	22.7	13.9	1.7	1314	9.9
55/56	2.9	2.2	5.6	5.2	14.7	24.8	17.2	14.1	14.8	27.7	32.4	8.4	2024	15.3
53/54	14.1	10.2	12.3	11.0	28.2	13.6	13.0	12.8	12.6	20.7	23.9	32.9	2283	17.2
51/52	35.8	30.6	26.1	33.6	27.5	14.2	13.2	7.1	11.0	7.4	17.0	35.7	2771	20.9
49/50	30.8	36.1	35.4	35.6	17.3	8.8	9.3	6.2	5.8	3.6	7.5	15.0	2259	17.1
47/48	10.9	14.6	15.9	12.4	6.1	2.6	3.5	1.4	1.0	.4	2.1	3.4	793	6.0
45/46	3.8	4.5	2.4	.9	1.1	.6	.7	.2	.1	.3	.4	.9	162	1.2
43/44	.3	.4	.6	.2	.3	.0	.1	.0	.0	.0	.0	.6	25	.2
41/42	.2	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	11	.1
39/40	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	.1
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	906	978	1065	1275	1147	1087	1075	877	1057	1524	1399	847	13237	100.0
MEAN	50.7	50.3	50.5	50.7	52.3	53.1	53.7	57.7	56.8	55.8	54.1	52.3	53.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1017	1022	1018	1018	1015	1020	1017	1019	1017	719
FEB	1018	1019	1020	1020	1018	1016	1019	1020	1019	851
MAR	1019	1018	1018	1019	1017	1018	1020	1019	1018	961
APR	1021	1017	1022	1018	1020	1018	1022	1016	1021	1169
MAY	1020	1019	1020	1017	1019	1016	1020	1017	1019	1049
JUN	1017	1016	1019	1015	1017	1017	1018	1017	1018	1009
JUL	1018	1019	1019	1019	1018	1019	1019	1019	1019	998
AUG	1018	1018	1018	1018	1017	1019	1018	1020	1018	783
SEP	1017	1017	1017	1015	1016	1016	1017	1018	1017	925
OCT	1020	1018	1019	1018	1020	1017	1020	1017	1019	1341
NOV	1017	1017	1017	1019	1017	1019	1017	1019	1017	1314
DEC	1018	1023	1017	1016	1016	1019	1017	1023	1018	730
ANN	1018	1019	1019	1017	1018	1018	1019	1019	1018	11849
OBS	2900	332	2481	211	2345	381	2882	517		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	986	993	1000	1010	1019	1025	1030	1034	1036
FEB	988	994	1002	1013	1019	1026	1031	1034	1037
MAR	989	998	1005	1013	1020	1024	1028	1032	1035
APR	994	1000	1008	1016	1021	1026	1032	1037	1040
MAY	994	1003	1011	1016	1020	1023	1027	1030	1036
JUN	997	1006	1011	1015	1018	1021	1024	1026	1029
JUL	1002	1010	1013	1016	1019	1021	1024	1028	1032
AUG	999	1005	1012	1016	1018	1020	1023	1025	1028
SEP	993	1003	1010	1014	1017	1019	1024	1028	1030
OCT	993	1001	1009	1016	1020	1023	1029	1032	1035
NOV	990	997	1004	1013	1018	1022	1028	1032	1037
DEC	991	994	1000	1012	1019	1024	1031	1034	1039

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	2.2	1.1	.0	1.1	.0	4.5	10.7	3.1	.0	2.2	.0	2.8	.0	81.2
NE	1.5	1.0	1.5	.0	.0	.0	.0	4.1	1.0	.0	.5	.0	.0	.0	94.4
E	12.3	1.0	3.9	.0	.0	.0	.0	17.2	1.5	.0	.0	.0	.0	.0	81.4
SE	10.7	4.5	10.7	.0	.0	.0	.0	24.1	3.3	.0	1.5	.0	2.4	.0	68.8
S	17.5	2.4	12.4	.0	.0	.0	.0	31.8	7.5	.0	5.2	.3	1.8	.0	53.4
SW	13.8	2.9	10.4	.0	.6	.0	.6	28.4	9.7	.0	5.1	.8	.8	.0	55.3
W	7.2	9.2	8.6	.0	.0	.0	.8	25.0	6.6	.0	2.3	.8	.0	.0	65.3
NW	6.4	3.8	4.3	.0	.0	.0	1.0	15.5	8.8	.0	2.4	.0	.5	.0	72.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	.0	.0	.0	.0	.0	.0	8.3	.0	.0	8.3	.0	8.3	.0	75.0
TOT PCT	10.5	3.4	7.9	.0	.2	.0	.7	22.3	6.1	.0	3.2	.3	1.2	.0	66.9
TOT OBS:	988														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	11.0	3.3	9.5	.0	.0	.0	.7	23.4	4.8	.0	4.4	.0	.7	.0	66.7
06009	11.9	1.9	7.1	.0	.5	.0	1.0	21.9	7.1	.0	2.9	.5	.5	.0	67.1
12015	13.5	2.2	5.7	.0	.4	.0	.4	21.7	8.3	.0	1.7	.0	1.3	.0	67.0
18021	6.4	5.7	8.5	.0	.0	.0	.7	21.3	4.6	.0	3.5	.7	2.1	.0	67.7
TOT PCT TOT OBS:	10.5 995	3.4	7.8	.0	.2	.0	.7	22.1	6.0	.0	3.2	.3	1.2	.0	67.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.6	4.4	1.2	.2	.0		9.9	13.8		11.5	13.8	7.0	13.3	9.5	13.8	5.1	12.5
NE	1.1	4.8	3.1	.5	.1	.0		9.5	10.8		8.1	12.3	8.5	16.7	9.5	14.4	7.1	9.8
E	.6	2.8	1.5	.5	.1	.0		5.6	11.0		3.9	2.9	3.5	6.7	5.9	6.3	6.6	8.8
SE	.3	2.7	3.6	1.8	.9	.1		9.4	17.7		7.8	17.8	6.8	14.2	10.1	15.0	7.4	9.1
S	.6	4.6	9.1	8.2	2.4	.7		25.7	20.6		27.2	22.1	23.4	17.5	26.9	22.5	32.4	21.8
SW	.4	2.7	7.8	4.0	.9	.8		15.8	18.5		14.4	14.5	20.4	18.3	16.8	7.5	17.4	13.1
W	.5	3.1	5.7	3.0	.2	.0		12.5	16.1		14.5	10.9	18.3	5.8	10.3	13.1	9.7	11.8
NW	.4	3.1	3.9	2.4	.4	.0		10.3	16.0		10.2	5.8	10.8	7.3	9.9	7.3	13.0	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		2.2	.0	1.1	.0	.9	.0	1.4	2.2
TOT OBS	76	349	498	276	67	10	1276		16.6		267	69	185	80	220	80	217	178
TOT PCT	6.0	27.4	39.0	21.6	5.3	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.9	4.8	2.4	.8	.0			9.9	13.8		12.0	8.6	10.7	8.4	
NE	2.8	4.8	1.6	.3	.0			9.5	10.8		9.0	10.5	10.8	8.4	
E	1.9	2.7	.7	.2	.0			5.6	11.0		3.7	4.3	6.0	7.6	
SE	1.4	3.6	2.8	1.2	.4			9.4	17.7		9.8	8.6	11.4	8.2	
S	1.8	7.2	11.2	4.2	1.2			25.7	20.6		26.2	21.9	23.8	27.6	
SW	1.1	5.6	6.5	2.4	.1			15.8	18.5		14.4	19.9	14.3	13.4	
W	1.6	5.2	4.6	1.1	.0			12.5	16.1		13.8	15.4	11.1	10.6	
NW	1.5	4.3	3.2	1.2	.1			10.3	16.0		9.3	10.0	9.3	12.0	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.3							1.3	.0		1.8	.8	.7	1.8	
TOT OBS	196	487	425	146	22	1276			16.6		336	245	300	395	
TOT PCT	15.4	38.2	33.3	11.4	1.7			100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
N	1.6	1.2	2.8	2.4	8.0	5.1
NE	3.6	.7	1.9	1.2	7.4	3.5
E	1.2	.9	1.1	1.0	4.2	4.8
SE	.9	.2	1.4	4.1	6.6	7.4
S	.7	.2	6.2	20.9	28.0	6.9
SW	.6	1.7	4.8	11.8	19.9	5.9
W	1.3	2.1	4.8	4.5	12.7	5.7
NW	.7	3.1	4.2	3.5	11.5	.0
VAR	.0	.0	.0	.0	.0	5.9
CALM	.3	.2	.8	.6	1.9	6.2
TOT OBS	72	65	178	321	636	
TOT PCT	11.3	10.2	28.0	50.5	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN
N	1.6	1.2	2.8	2.4	8.0	5.1
NE	3.6	.7	1.9	1.2	7.4	3.5
E	1.2	.9	1.1	1.0	4.2	4.8
SE	.9	.2	1.4	4.1	6.6	7.4
S	.7	.2	6.2	20.9	28.0	6.9
SW	.6	1.7	4.8	11.8	19.9	5.9
W	1.3	2.1	4.8	4.5	12.7	5.7
NW	.7	3.1	4.2	3.5	11.5	.0
VAR	.0	.0	.0	.0	.0	5.9
CALM	.3	.2	.8	.6	1.9	6.2
TOT OBS	72	65	178	321	636	
TOT PCT	11.3	10.2	28.0	50.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	400	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.5	.3	.4	1.2	1.3	.3	.2	.0	.0	.0	3.9
.2	.0	.2	.9	.4	.4	.0	.0	.0	.0	.0	5.5
.1	.2	.2	1.0	.0	.6	.3	.0	.0	.0	.0	2.6
.5	.0	.2	1.5	1.7	.6	.4	.0	.0	.0	.0	1.8
1.5	.6	4.1	5.1	8.5	3.5	.9	.0	.0	.0	.0	3.7
1.0	.6	1.4	3.0	5.1	2.6	.8	.3	.0	.0	.0	4.0
.2	.7	.6	1.7	3.3	1.7	.6	.0	.0	.0	.0	4.0
.2	.4	.7	1.5	2.9	1.1	.2	.0	.0	.0	.0	4.4
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.2	.3	.5	.3	.0	.0	.0	.0	.0	.5
.24	.18	.49	.98	1.49	.77	.22	.3	.0	.2	.194	636
3.8	2.8	7.7	15.4	23.4	12.1	3.5	.5	.0	.3	30.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.3	.3	.3	.3	.3	.3	.3	.3
>3000	.5	.6	.8	.8	.8	.8	.8	.8
>2500	3.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>2000	12.5	13.3	16.0	16.1	16.4	16.4	16.4	16.4
>1000	23.4	34.4	38.1	38.9	39.3	39.5	39.5	39.5
>600	30.8	40.9	53.1	54.0	54.7	54.8	54.8	54.8
>300	32.5	52.4	60.3	61.6	62.2	62.6	62.6	62.6
>150	32.9	53.9	62.9	64.5	65.1	65.4	65.4	65.4
>0	33.3	54.8	64.9	66.7	67.6	68.7	69.0	69.0
TOTAL	211	347	411	422	428	435	437	437

TOTAL NUMBER OF OBS: 633

PCT FREQ NM <5/8: 31.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
0	1	2	3	4	5	6	7	8	TOTAL
7.8	3.2	5.3	6.6	7.6	7.2	10.4	9.8	39.4	682

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.7	
	NO PCP	.0	.0	.1	.1	.4	.1	.0	.1	.0	.0	.8	
	TOT S	.0	.0	.1	.1	.9	.3	.1	.1	.0	.0	1.5	
1/2<1	PCP	.0	.0	.1	.2	.3	.2	.0	.0	.0	.0	.9	
	NO PCP	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.6	
	TOT S	.1	.0	.1	.2	.8	.3	.1	.0	.0	.0	1.5	
1<2	PCP	.1	.0	.0	.2	.7	.2	.2	.1	.0	.0	1.4	
	NO PCP	.2	.0	.0	.0	.4	.2	.2	.2	.0	.0	1.2	
	TOT S	.3	.0	.0	.2	1.1	.4	.3	.3	.0	.0	2.6	
2<5	PCP	.2	.0	.0	.3	2.6	1.4	.8	.6	.0	.1	6.0	
	NO PCP	.3	.1	.0	.3	1.6	1.7	.4	.0	.0	.1	4.4	
	TOT S	.4	.1	.0	.6	4.2	3.1	1.2	.6	.0	.2	10.4	
5<10	PCP	1.1	.4	.7	1.2	3.1	2.0	1.3	.7	.0	.0	10.7	
	NO PCP	2.0	3.6	1.0	2.1	6.2	4.0	1.3	1.6	.0	.2	22.1	
	TOT S	3.1	4.0	1.7	3.3	9.3	6.0	2.9	2.2	.0	.2	32.8	
10+	PCP	.1	.0	.1	.2	.0	.7	.7	.4	.0	.0	2.9	
	NO PCP	3.3	3.9	3.2	3.9	8.7	3.7	7.7	6.9	.0	.8	48.2	
	TOT S	3.6	3.9	3.3	4.1	9.3	6.4	8.4	7.3	.0	.8	51.1	
TOT OBS													990
TOT PCT		9.3	9.9	5.2	8.5	25.9	16.4	13.0	10.5	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.3	.1	.0	.1	.0	.0	.4	
	22+	.0	.0	.1	.0	.4	.1	.1	.0	.0	.0	.7	
	TOT S	.0	.0	.1	.1	.8	.2	.1	.1	.0	.0	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	11-21	.1	.0	.0	.1	.3	.1	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.7	
	TOT S	.2	.0	.0	.2	.9	.2	.1	.0	.0	.0	1.7	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.2	.0	.0	.1	.2	.4	.3	.2	.0	.0	1.4	
	22+	.0	.0	.0	.1	.8	.1	.0	.0	.0	.0	1.0	
	TOT S	.3	.0	.0	.2	1.2	.5	.3	.3	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.3	
	4-10	.1	.0	.0	.1	.3	.2	.2	.0	.0	.0	1.1	
	11-21	.2	.0	.0	.3	1.2	1.3	.3	.3	.0	.0	3.9	
	22+	.0	.0	.0	.3	2.8	1.3	.4	.2	.0	.0	5.2	
	TOT S	.4	.0	.0	.7	4.3	2.9	1.0	.5	.0	.2	10.1	
5<10	0-3	.3	.4	.2	.1	.1	.0	.0	.3	.0	.2	1.6	
	4-10	.8	1.9	.8	.8	1.0	1.0	.7	.7	.0	.0	7.7	
	11-21	.8	.9	.5	1.0	3.0	2.3	1.4	.7	.0	.0	10.8	
	22+	.9	.2	.2	1.2	4.8	2.4	.9	.6	.0	.0	11.3	
	TOT S	2.8	3.5	1.7	3.2	8.9	5.8	3.0	2.3	.0	.2	31.4	
10+	0-3	.2	.6	.4	.2	.3	.3	.2	.0	.0	.8	2.4	
	4-10	1.9	3.2	2.0	1.6	2.9	1.3	2.3	2.2	.0	.0	17.3	
	11-21	2.9	2.3	1.1	2.1	4.2	3.6	4.0	3.0	.0	.0	23.1	
	22+	.6	.3	.4	.7	2.1	1.2	1.7	1.9	.0	.0	9.2	
	TOT S	3.6	6.3	3.9	4.6	9.6	6.3	8.2	7.0	.0	.8	32.7	
TOT OBS													1125
TOT PCT		9.2	10.0	5.7	9.0	25.6	16.2	12.6	10.3	.0	1.2	100.0	

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PERIOD: (PRIMARY) 1927-1974
(OVER-ALL) 1873-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
0000	1.9	2.9	3.9	9.9	19.9	34.9	49.9	64.9	79.9		70.1	29.9	174
0600	3.4	4.1	8.8	16.2	22.3	7.4	2.7	.0	.0	.0	64.9	35.1	148
1200	3.6	1.4	7.2	19.6	21.7	10.1	3.6	.7	.0	.0	68.1	31.9	138
1800	2.6	2.1	6.3	12.0	25.5	14.6	4.7	.5	.0	.5	68.8	31.3	192
TOT	24	18	49	99	150	77	22	3	0	2	444	208	652
PCT	3.7	2.8	7.5	15.2	23.0	11.8	3.4	.5	.0	.3	68.1	31.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	1.6	2.2	3.2	11.8	34.4	46.8	314
0600	1.7	1.7	1.7	11.2	26.6	57.1	233
1200	1.1	.7	1.1	9.2	37.0	50.9	273
1800	1.0	1.9	4.5	8.3	27.6	56.7	312
TOT	15	19	31	114	357	596	1132
PCT	1.3	1.7	2.7	10.1	31.5	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	5.3	17.8	36.1	36.1	27.8	169
0600	3.5	18.2	40.6	25.2	34.3	143
1200	3.0	11.9	35.8	32.1	32.1	134
1800	2.7	12.3	29.9	41.7	28.3	187
TOT	23	95	223	218	192	633
PCT	3.6	15.0	35.2	34.4	30.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
59/59	.0	.0	.0	.0	.3	.3	1.2	.7	20	2.7
58/56	.0	.1	.3	.7	1.9	4.6	14.8	13.3	280	37.6
45/49	.1	.3	.0	2.4	5.9	8.3	9.1	11.0	278	37.3
40/44	.0	.1	.3	.5	3.8	3.5	5.1	4.7	136	18.3
35/39	.0	.0	.1	.8	.7	.7	.9	.5	28	3.8
30/34	.0	.0	.0	.0	.0	.1	.1	.0	2	.3
TOTAL	1	4	7	33	93	134	233	240	743	100.0
PCT	.1	.5	.9	4.4	12.5	18.0	31.3	32.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
59/59	.0	.0	.3	.2	1.3	.3	.1	.0	.0	.0
58/56	.9	1.3	.9	3.2	19.3	7.4	2.6	1.1	.0	.5
45/49	3.8	2.7	1.3	3.0	7.0	6.1	6.7	5.6	.0	.8
40/44	2.2	2.2	.9	.9	2.3	3.3	3.2	3.0	.0	.0
35/39	.9	.8	.3	.4	.0	.3	.6	.5	.0	.0
30/34	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	7.9	7.1	4.0	7.6	30.3	17.9	13.3	10.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	58	54	48	39	36	34	47.9	333
0600	61	59	53	48	39	35	31	46.9	247
1200	58	54	53	48	38	29	27	46.7	301
1800	58	56	54	49	40	35	32	48.2	399
TOT	61	56	54	48	39	34	27	47.5	1282

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	7.1	13.8	15.3	28.1	35.7	82	196		
0600	.0	5.8	12.1	19.1	33.3	29.9	82	173		
1200	.1	3.0	10.4	14.0	39.6	32.9	84	164		
1800	.5	7.9	13.0	22.2	25.3	31.0	80	216		
TOT	1	46	93	134	233	242	82	749		

PERIOD: (PRIMARY) 1927-1974
(OVER-ALL) 1873-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.2	.1	.2	.0	5	.0	.6
6	.0	.0	.0	.0	.0	.1	.5	.1	.1	7	.0	.8
5	.0	.0	.0	.0	.1	.2	1.2	.1	.0	14	.1	1.5
4	.0	.0	.0	.0	.0	.8	1.8	.1	.0	24	.1	2.7
3	.0	.0	.0	.0	.2	1.7	1.7	.1	.0	31	.2	3.4
2	.0	.0	.0	.0	.5	3.1	2.4	.1	.0	68	.6	7.3
1	.0	.0	.0	.2	2.3	8.0	2.0	.0	.0	60	.7	6.2
0	.0	.0	.0	.2	4.3	7.2	.0	.0	.0	99	.7	10.8
-1	.0	.0	.0	.5	4.3	7.2	.0	.0	.0	103	.2	11.7
-2	.0	.0	.0	.2	3.7	4.3	.0	.0	.0	71	.3	7.9
-3	.0	.0	.0	1.5	3.5	2.0	.1	.0	.0	79	.2	8.9
-4	.0	.0	.0	2.2	3.3	.6	.0	.0	.0	70	.0	8.1
-5	.0	.0	.0	3.5	2.4	.2	.0	.0	.0	53	.1	6.0
-6	.0	.0	.0	7	2.7	1.4	.1	.0	.0	42	.0	4.9
-7/-8	.0	.0	1.7	5.3	1.6	.1	.0	.0	.0	76	.0	8.8
-9/-10	.0	.2	2.3	1.5	.3	.2	.0	.0	.0	40	.0	4.6
-11/-12	.0	.5	1.0	.3	.0	.0	.0	.0	.0	16	.0	1.8
-14/-16	.1	.0	.3	.2	.0	.0	.0	.0	.0	6	.0	.7
TOTAL	1	6	53	139	240	304	93	8	1	865	29	836
PCT	.1	.7	6.1	18.4	27.7	35.1	10.8	.9	.1	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1903-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.7	.0	.0	.0	.0	.7	.3	2.3	.5	.0	.0	.0	3.1
3-4	.0	.8	.7	.3	.0	.0	1.7	.0	2.0	.5	.0	.0	.0	2.5
5-6	.0	.4	.9	.2	.0	.0	1.6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.8	.3	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	3.0	.9	.0	.0	6.0	.3	4.9	1.1	.0	.0	.0	6.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.2	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.7	.5	.0	.0	.0	1.2	.3	.3	1.3	.0	.0	.0	1.8
3-4	.0	.5	.0	.3	.0	.0	.5	.0	.8	.0	.3	.0	.0	1.0
5-6	.0	.0	.3	.3	.0	.0	.3	.0	.0	1.6	.8	.0	.0	2.4
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.3	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.1	.8	1.0	.0	.0	3.4	.3	1.1	3.7	2.2	.3	.0	7.4

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	2.6	.0	.0	.0	4.3	.0	1.6	.6	.0	.0	.0	2.3
3-4	.0	1.4	3.3	.0	.0	.0	4.7	.0	.6	3.6	.8	.0	.0	5.0
5-6	.0	.0	1.8	2.3	.0	.0	4.1	.0	.3	2.0	1.1	.3	.0	3.6
7	.0	.0	1.2	2.6	.9	.3	4.7	.0	.0	2.2	1.1	.1	.0	3.5
8-9	.0	.0	.3	2.7	.6	.0	3.6	.0	.0	.5	1.3	.1	.0	1.9
10-11	.0	.0	.4	1.4	.4	.0	2.2	.0	.0	.1	.6	.4	.0	1.1
12	.0	.0	.0	.7	.0	.3	.9	.0	.0	.0	.3	.3	.0	.8
13-16	.0	.0	1.6	1.8	.8	.3	4.4	.0	.0	.6	1.4	.0	.0	2.0
17-19	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.2	.7	.0	.9	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	11.1	11.7	3.8	.8	30.5	.0	2.5	9.6	6.6	1.5	.0	20.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.5	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	1.9	.5	.0	.0	.0	2.4	.0	.6	.8	.0	.0	.0	1.4	
3-4	.0	1.2	1.4	.2	.0	.0	2.8	.0	1.3	1.3	.0	.0	.0	2.6	
5-6	.0	.3	2.2	.3	.0	.0	3.2	.0	.0	1.1	1.1	.0	.0	2.2	
7	.0	.3	1.1	.0	.0	.0	1.3	.0	.3	.5	.5	.0	.0	1.3	
8-9	.0	.0	.8	.4	.0	.0	1.1	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	.8	
12	.0	.0	.3	.2	.0	.0	.4	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.3	.3	.3	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.3	6.2	2.2	.0	.0	12.8	.0	3.0	4.0	4.3	.3	.0	11.6	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.3	2.3	.0	.0	.0	.0	4.5	
1-2	.3	9.8	6.8	.0	.0	.0	17.1	
3-4	.0	8.3	10.8	1.8	.0	.0	20.9	
5-6	.0	1.3	9.8	6.3	.3	.0	17.6	
7	.0	.3	5.8	5.0	.8	.3	12.3	
8-9	.0	.0	2.3	5.0	1.0	.0	8.3	
10-11	.0	.0	1.0	3.0	.8	.0	4.8	
12	.0	.0	.3	2.3	.3	.3	3.5	
13-16	.0	.0	2.8	4.8	1.0	.3	8.8	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.3	.8	.0	1.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	22.2	39.3	29.0	5.8	.8	100.0	397

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-49	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.2	5.3	3.3	2.4	1.3	.8	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	5
6-7	.0	.0	2.5	4.7	6.7	4.7	2.7	1.6	2.8	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	161	8
8-9	.0	.0	.9	3.1	5.2	3.9	4.2	2.4	1.6	3.6	.2	.2	.3	.0	.0	.0	.0	.0	.0	163	10
10-11	.0	.2	.9	2.3	3.9	2.8	1.6	.9	2.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	102	9
12-13	.0	.0	1.4	.3	.3	.6	.3	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	9
>13	.0	.0	.0	1.4	.3	.2	.0	.3	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	18	9
INDET	.3	.2	.2	.9	.9	.8	.9	.2	.6	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	35	9
TOTAL	7	29	72	106	113	91	67	42	56	35	11	3	4	0	0	0	0	0	0	636	8
PCT	1.1	4.6	11.3	16.7	17.8	14.3	10.3	6.6	8.8	5.3	1.7	.3	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1973-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER PRZ	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	.0	1.6	.0	.3	.0	1.0	3.1	2.4	.0	5.4	.0	1.4	.0	87.6
NE	2.2	.2	1.3	.0	.0	.0	.2	3.9	.0	.0	2.7	.0	.0	.0	92.4
E	5.0	1.0	3.7	.0	.0	.0	.0	8.6	1.3	.0	1.0	.0	1.3	.0	87.7
SE	10.7	5.6	2.3	.0	.0	.0	.0	18.6	3.7	.0	3.4	1.1	1.4	.0	69.9
S	13.0	8.9	6.4	.0	.0	.0	.0	28.3	7.9	.0	9.9	.0	2.7	.4	50.8
SW	7.4	4.3	12.9	.0	.0	.0	.0	23.6	7.7	.0	11.3	.0	.7	.0	56.0
W	9.3	6.8	6.4	.0	.8	.0	1.4	22.7	8.5	1.6	7.0	.0	.8	.0	59.4
NW	3.7	.8	7.2	.0	.2	.0	.3	11.6	3.4	.0	4.4	.0	.0	.0	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	2.6	2.6	.0	.0	.0	.0	6.6	2.6	.0	17.1	.0	.0	.0	73.7
TOT PCT	7.0	4.1	5.8	.0	.2	.0	.3	16.7	9.3	.2	7.6	.2	1.2	.1	68.9
TOT OBS:	1213														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER PRZ	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	6.8	2.3	6.5	.0	.3	.0	.3	13.3	5.2	.0	8.4	.0	1.3	.0	68.9
0600	4.6	6.6	4.9	.0	.3	.0	.0	16.1	5.3	.3	7.2	.3	.3	.3	70.1
1200	9.7	5.0	3.4	.0	.0	.0	.7	20.3	6.0	.0	6.7	.0	1.3	.0	63.4
1800	6.5	2.8	6.3	.0	.0	.0	.3	14.6	4.6	.3	7.7	.0	1.3	.0	71.3
TOT PCT	6.9	4.1	5.8	.0	.2	.0	.3	16.6	9.3	.2	7.3	.2	1.1	.1	69.0
TOT OBS:	1236														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	5.8	4.4	.7	.1	.0		11.6	11.5	13.8	16.0	11.1	11.7	9.4	9.2	11.3	12.1	12.1
NE	.2	4.8	3.4	.3	.0	.0		8.8	10.9	7.6	13.3	9.7	6.0	7.2	11.0	7.2	13.6	13.6
E	.4	3.5	2.3	.2	.0	.0		6.5	10.0	5.6	2.3	4.2	12.1	8.8	5.4	7.3	7.0	7.0
SE	.4	3.6	3.0	.8	.2	.0		8.0	12.7	6.1	6.6	8.1	8.5	9.1	8.9	9.3	7.4	7.4
S	.6	4.8	9.8	5.6	1.0	.3		22.0	18.2	20.9	16.0	22.0	20.6	26.4	18.9	24.6	16.0	16.0
SW	.3	4.5	6.2	2.8	.6	.0		14.4	16.0	14.6	15.2	15.8	11.3	11.7	16.3	13.9	17.4	17.4
W	.3	4.5	4.4	1.6	.2	.1		11.0	14.1	11.8	12.9	10.0	13.3	9.6	15.3	6.7	13.4	13.4
NW	.5	4.4	4.9	1.8	.3	.0		11.8	14.0	12.3	14.3	11.0	13.3	11.1	12.0	11.1	12.3	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.9							5.9	.1	7.4	3.1	8.1	3.2	6.3	3.1	6.6	.7	.7
TOT OBS	134	328	364	204	33	5	1468		13.3	297	64	272	62	276	98	257	142	142
TOT PCT	9.1	36.0	38.4	13.9	2.2	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.8	6.4	2.1	.2	.0			11.6	11.5	14.2	11.2	9.4	11.6		
NE	2.0	5.5	1.3	.0	.0			8.8	10.9	8.6	9.0	8.2	9.5		
E	1.7	4.3	.5	.0	.0			6.5	10.0	5.0	5.7	7.9	7.2		
SE	1.8	4.0	1.8	.4	.0			8.0	12.7	6.2	8.2	9.1	8.6		
S	1.8	8.3	8.0	3.3	.3			22.0	18.2	20.0	21.7	24.3	21.6		
SW	1.5	7.2	3.9	1.9	.0			14.4	16.0	14.8	15.0	12.9	13.2		
W	2.0	5.2	3.1	.6	.1			11.0	14.1	12.0	10.6	11.1	10.3		
NW	1.7	6.3	3.2	.6	.0			11.8	14.0	12.7	11.5	11.4	11.5		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	5.9							5.9	.1	6.6	7.2	3.6	4.5		
TOT OBS	312	693	350	107	6	1468			13.3	361	334	374	399		
TOT PCT	21.3	47.2	23.8	7.3	.4			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1973-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	6.6	3.6	35.2	40.7	11.9	1.9	.0	13.0	100.0	361
0600Z	7.2	3.3	37.7	34.1	15.9	1.5	.3	13.3	100.0	334
1201Z	5.6	3.2	39.6	38.0	13.9	3.2	.5	13.7	100.0	374
1802Z	4.5	3.0	35.3	40.4	14.0	2.3	.5	13.7	100.0	399
TOT	87	48	327	564	204	33	5	13.5		1468
PCT	5.9	3.3	35.9	38.4	13.9	2.2	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.1	2.0	3.5	2.6		4.2
NE	4.3	1.9	1.5	.9		3.0
E	2.2	1.1	1.6	1.1		4.1
SE	1.6	.3	1.9	3.6		5.8
S	.9	1.1	4.1	15.9		7.2
SW	.3	1.1	3.6	9.1		7.0
W	.5	1.0	2.5	5.8		6.6
NW	1.3	2.9	4.8	3.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.5	.5	1.7	2.9		4.8
TOT OBS	164	111	235	419	929	5.7
TOT PCT	17.7	11.9	25.3	45.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.4	.3	.1	.6	1.8	1.2	.2	.2	.1	.0	7.2	
NE	.1	.1	.1	.6	.3	.2	.2	.0	.0	.0	7.1	
E	.1	.0	.2	.6	.4	.3	.0	.1	.0	.0	4.3	
SE	.3	.4	.2	1.7	1.0	.7	.2	.1	.0	.0	2.8	
S	3.1	.9	1.2	3.7	5.1	2.4	1.2	.3	.4	.1	3.7	
SW	1.6	.8	.6	2.2	3.8	1.5	.3	.1	.0	.0	3.2	
W	.8	.3	.4	1.3	2.4	1.8	.3	.0	.0	.0	2.6	
NW	.5	.3	.4	1.3	3.2	1.3	.1	.0	.0	.0	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.0	.1	.0	.6	1.2	.2	.4	.4	.0	3.3	
TOT OBS	76	29	30	111	173	99	25	12	9	1	364	
TOT PCT	8.2	3.1	3.2	11.9	18.6	10.7	2.7	1.3	1.0	.1	39.2	929
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >9000	.3	.6	.9	1.0	1.0	1.0	1.0	1.1
>OR >8000	1.4	1.8	2.0	2.3	2.3	2.3	2.3	2.4
>OR >7000	2.4	4.2	4.7	4.9	4.9	4.9	4.9	5.1
>OR >6000	8.7	13.9	15.2	15.3	15.3	15.7	15.7	15.8
>OR >5000	18.8	29.7	32.7	34.0	34.0	34.3	34.3	34.4
>OR >4000	25.7	40.2	44.0	45.7	45.9	46.2	46.2	46.3
>OR >3000	26.6	42.4	46.7	48.6	49.0	49.3	49.3	49.6
>OR >2000	26.8	43.8	49.1	51.6	52.0	52.3	52.3	52.6
>OR >1500	26.9	44.3	51.0	54.2	55.3	55.1	60.3	60.5
TOTAL	250	412	474	504	510	550	561	562

TOTAL NUMBER OF OBS: 930

PCT FREQ NM <5/8: 39.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
	12.7	6.2	5.7	7.6	6.0	6.3	7.7	9.1	31.5	1012

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1873-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.7	.1	.0	.2	1.3	.7	.3	.1	.0	1.1	4.1	
	TOT %	.2	.1	.0	.2	1.4	.8	.3	.1	.0	1.1	4.2	
1/2<1	PCP	.1	*	*	.0	.1	.2	*	.3	.0	.0	.8	
	NO PCP	.3	.0	.1	.1	.4	.6	.2	.3	.0	.0	1.9	
	TOT %	.4	*	.1	.1	.6	.7	.3	.6	.0	.0	2.7	
1<2	PCP	.0	.0	.1	.0	1.1	.4	.4	*	.0	.1	2.1	
	NO PCP	.2	*	.1	.2	.5	.1	.1	.2	.0	.0	1.3	
	TOT %	.7	*	.2	.2	1.5	.5	.5	.2	.0	.1	3.4	
2<5	PCP	*	.0	.1	.4	2.0	.8	.4	.5	.0	.0	4.1	
	NO PCP	.0	*	.1	.7	1.4	.8	.8	.2	.0	.1	3.6	
	TOT %	*	*	.2	.4	3.4	1.7	1.1	.7	.0	.1	7.7	
5<10	PCP	.7	.1	.1	.4	2.6	1.3	1.0	.2	.0	.2	6.2	
	NO PCP	2.0	1.5	.7	1.1	5.0	3.1	1.6	2.0	.0	.7	17.7	
	TOT %	2.2	1.6	.8	1.5	7.6	4.5	2.6	2.2	.0	.9	23.9	
10+	PCP	.1	.2	.2	.6	.4	.5	.5	.5	.0	.1	3.0	
	NO PCP	8.7	6.5	4.7	4.4	7.6	5.9	4.9	8.2	.0	4.1	55.0	
	TOT %	8.8	6.7	4.9	5.0	8.1	6.4	5.4	8.6	.0	4.1	58.0	
TOT OBS													1208
TOT PCT		11.8	8.5	6.2	7.3	22.6	14.6	10.2	12.4	.0	6.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	.2	.1	.0	.1	.4	.2	.3	.1	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.7	.4	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	TOT %	.2	.1	.0	.1	1.4	.7	.3	.1	.0	1.0	3.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.2	*	.1	*	.1	.2	.2	.4	.0	.0	1.3	
	11-21	*	.0	.0	.0	.3	.4	*	*	.0	.0	.8	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.3	*	.1	.1	.5	.7	.2	.5	.0	.0	2.5	
1<2	0-3	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	.2	
	4-10	.1	*	.1	.1	.3	*	.1	.1	.0	.0	.9	
	11-21	.1	.0	.1	.0	.9	.4	.2	.1	.0	.0	1.7	
	22+	.0	.0	.0	.1	.4	.0	.1	.0	.0	.0	.7	
	TOT %	.2	*	.1	.2	1.7	.5	.6	.2	.0	.1	2.5	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	4-10	.0	*	.1	.1	.3	.4	.5	.1	.0	.0	1.5	
	11-21	*	.0	.2	.1	1.2	.7	.4	.4	.0	.0	3.1	
	22+	.0	.0	.0	.2	2.1	.7	.4	.1	.0	.0	3.4	
	TOT %	*	*	.2	.4	3.7	1.8	1.2	.6	.0	.2	8.3	
5<10	0-3	.0	.1	.2	.1	.1	*	.1	.0	.0	.9	1.3	
	4-10	1.0	.9	.3	.4	.7	1.1	.8	.7	.0	.0	5.9	
	11-21	1.2	.7	.2	.4	3.3	2.0	.9	.9	.0	.0	9.6	
	22+	.1	.0	.2	.4	3.3	1.2	.8	.4	.0	.0	6.4	
	TOT %	2.2	1.6	.8	1.4	7.4	4.4	2.5	2.1	.0	.9	23.2	
10+	0-3	.5	.1	.2	.3	.4	.1	.1	.3	.0	3.9	6.1	
	4-10	4.3	3.8	2.9	2.4	2.8	2.4	2.1	3.1	.0	.0	23.8	
	11-21	3.4	2.6	1.9	2.5	3.7	2.4	3.0	3.7	.0	.0	23.2	
	22+	.8	.2	.1	.1	.9	1.3	.7	1.5	.0	.0	5.6	
	TOT %	8.9	6.8	5.1	5.3	7.7	6.3	5.8	8.6	.0	3.9	58.6	
TOT OBS													1198
TOT PCT		11.8	8.6	6.4	7.5	22.4	14.4	10.7	12.1	.0	6.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	7.0	1.6	3.5	14.4	17.9	11.7	1.6	2.7	1.6	.4	62.3	37.7	257
06009	6.9	3.4	1.3	9.4	21.9	7.3	2.1	.0	1.3	.0	53.6	46.4	233
12015	10.1	3.2	3.7	9.2	16.5	10.1	4.1	1.4	.5	.0	58.7	41.3	218
18021	8.0	4.4	4.0	13.3	16.5	12.4	2.8	.8	.4	.0	62.7	37.3	249
TOT	76	30	30	112	174	100	25	12	9	1	569	388	957
PCT	7.9	3.1	3.1	11.7	18.2	10.4	2.6	1.3	.9	.1	59.5	40.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.9	3.8	6.1	7.6	21.3	58.3	343
06009	3.7	2.5	3.1	9.0	21.4	60.2	322
12015	4.3	2.0	2.3	9.1	26.3	56.0	350
18021	4.4	2.3	2.3	7.0	23.0	61.0	344
TOT	52	36	47	111	313	800	1359
PCT	3.8	2.6	3.5	8.2	23.0	58.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.5	13.7	32.5	31.4	36.1	255
06009	7.1	11.5	26.5	28.8	44.7	226
12015	10.2	17.0	31.6	29.1	39.3	206
18021	7.8	18.1	35.0	29.2	35.8	243
TOT	75	140	293	276	361	930
PCT	8.1	15.1	31.5	29.7	38.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.1	.0	.0	.1	.1	.0	.0	3	.4
55/59	.0	.0	.0	.1	1.1	1.7	2.1	.0	38	5.0
50/54	.0	.3	.3	.7	3.7	6.4	13.7	11.0	271	36.0
45/49	.0	.0	.3	1.2	3.9	13.5	12.4	14.3	343	45.6
40/44	.0	.0	.1	.8	1.3	3.7	2.8	2.5	85	11.3
35/39	.0	.0	.0	.1	.5	.3	.1	.5	12	1.6
30/34	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	3	5	22	80	194	234	215	753	100.0
PCT	.0	.4	.7	2.9	10.6	25.8	31.1	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.1	.0	.0	.1	.0	.0	.1	.8	.0	.0
55/59	.3	.6	.5	1.3	1.4	.3	.3	.3	.0	.3
50/54	3.0	3.3	3.7	3.6	11.6	5.9	2.4	2.0	.0	.7
45/49	6.9	2.9	2.8	3.3	9.4	7.6	6.7	7.5	.0	.5
40/44	1.2	1.1	.7	1.2	1.2	.9	2.6	2.1	.0	.3
35/39	.3	.3	.1	.0	.0	.1	.4	.3	.0	.0
30/34	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.9	8.2	7.8	9.5	23.5	14.8	10.5	12.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	58	55	50	43	40	37	49.3	360
06009	59	58	54	48	43	38	38	48.2	336
12015	61	56	53	48	42	36	32	47.5	380
18021	61	57	55	48	42	37	33	48.3	405
TOT	62	57	54	48	42	39	32	48.4	1481

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	13.8	25.4	33.9	22.8	81	189
06009	.0	5.1	7.6	24.7	32.8	29.8	82	198
12015	.0	3.3	6.5	23.5	31.0	33.7	83	184
18021	.0	3.2	14.8	27.0	26.5	28.6	81	189
TOT	.0	30	81	195	236	218	82	760

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1		2	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.0		2	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.4	.0		9	.0	.8
6	.0	.0	.0	.0	.0	.2	.9	.0		14	.0	1.2
5	.0	.0	.0	.0	.0	.4	1.1	.1		19	.1	1.6
4	.0	.0	.0	.0	.1	1.5	1.3	.1		34	.4	2.3
3	.0	.0	.0	.0	.3	2.2	1.8	.0		48	.4	3.9
2	.0	.0	.0	.0	1.0	5.1	1.7	.0		88	.6	7.1
1	.0	.0	.0	.0	1.4	6.6	1.5	.0		108	.7	8.8
0	.0	.0	.1	.2	4.1	12.7	.7	.0		203	2.1	15.7
-1	.0	.0	.0	.0	6.5	4.8	.3	.0		132	.9	10.7
-2	.0	.0	.0	.0	8	3.1	.1	.0		138	1.1	11.1
-3	.0	.0	.0	.7	6.6	1.4	.1	.0		100	.6	8.2
-4	.0	.0	.0	1.9	4.7	.9	.0	.0		86	.4	7.1
-5	.0	.0	.0	2.1	2.6	.4	.0	.0		58	.2	4.9
-6	.0	.0	.0	2	2.1	.8	.2	.0		37	.2	3.1
-7/-8	.1	.0	.8	2.0	.6	.0	.0	.0		40	.0	3.3
-9/-10	.0	.1	.4	.6	.1	.0	.0	.0		14	.0	1.2
-11/-13	.0	.1	.3	.2	.1	.0	.0	.0		7	.0	.6
TOTAL	1	2	20	121	422	449	111	12		1139	87	1032
PCT	.1	.2	1.8	10.6	37.1	39.4	9.7	1.1	.1	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.2	.0	.0	.0	2.0	.0	1.3	.2	.0	.0	.0	1.4
1-2	.0	2.8	1.2	.0	.0	.0	4.0	.0	2.9	1.3	.0	.0	.0	4.2
3-4	.0	.8	1.8	.0	.0	.0	2.6	.0	1.0	1.6	.0	.0	.0	2.5
5-6	.0	.1	.5	.1	.0	.0	.8	.0	.3	.6	.0	.0	.0	.9
7	.0	.0	.1	.2	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	4.2	.4	.0	.0	10.1	.0	5.4	4.0	.0	.0	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	1.0	.0	.7	.0	.0	.0	.0	.7
1-2	.1	2.3	1.1	.0	.0	.0	3.5	.5	1.9	.8	.0	.0	.0	3.1
3-4	.0	.6	.7	.0	.0	.0	1.3	.0	.3	1.1	.0	.0	.0	1.4
5-6	.0	.1	.0	.2	.0	.0	.4	.0	.3	.7	.1	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	2.0	.2	.0	.0	6.4	.5	3.3	3.0	.3	.2	.0	7.2

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.4	.0	.0	.0	.0		.8	.1	1.3	.0	.0	.0	.0		1.3
1-2	.1	2.3	1.9	.0	.0	.0		4.3	.1	1.3	1.0	.0	.0	.0		2.4
3-4	.0	.6	3.2	.4	.0	.0		4.2	.0	1.1	2.0	.3	.0	.0		3.3
5-6	.0	.1	2.6	1.2	.0	.0		3.9	.0	.1	1.4	.8	.0	.0		2.4
7	.0	.1	2.5	.7	.1	.0		3.5	.0	.3	1.1	.5	.0	.0		1.8
8-9	.0	.0	.8	.5	.1	.0		1.4	.0	.0	.3	.2	.0	.0		.5
10-11	.0	.0	.2	1.6	.3	.0		2.2	.0	.0	.1	.2	.1	.0		.4
12	.0	.0	.0	.1	.1	.0		.3	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.6	.3	.0		.8	.0	.0	.1	.3	.1	.0		.6
17-19	.0	.0	.2	.1	.1	.4		1.0	.0	.0	.1	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	3.6	11.5	5.3	1.1	.4		22.4	.1	4.1	5.9	2.3	.3	.0		12.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.0	.3	.0	.0	.0		1.2	.1	.5	.3	.0	.0	.0		1.0	
1-2	.1	1.6	.3	.0	.0	.0		2.0	.0	2.5	.8	.0	.0	.0		3.3	
3-4	.0	1.0	.9	.3	.0	.0		2.1	.0	.7	1.6	.3	.0	.0		2.5	
5-6	.0	.2	1.3	.3	.0	.0		1.9	.0	.1	2.0	.6	.0	.0		2.6	
7	.0	.0	1.0	.5	.0	.0		1.5	.0	.0	.5	.5	.0	.0		1.1	
8-9	.0	.1	.1	.3	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.2	.1	.1	.0		.5	.0	.0	.4	.1	.0	.0		.6	
12	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.1	.1	.0	.0	.1		.4	.0	.0	.1	.1	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	4.1	4.2	1.7	.2	.1		10.5	.1	3.7	5.8	1.7	.1	.0		11.4	90.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.7	7.8	1.0	.0	.0	.0	19.5	
1-2	1.0	17.6	8.3	.0	.0	.0	26.9	
3-4	.0	5.9	12.8	1.3	.0	.0	20.0	
5-6	.0	1.4	9.0	3.4	.0	.0	13.8	
7	.0	.6	3.6	2.5	.1	.0	6.9	
8-9	.0	.1	2.0	1.0	.3	.0	3.4	
10-11	.0	.0	1.0	2.1	.6	.0	3.7	
12	.0	.0	.0	.4	.3	.0	.7	
13-16	.0	.1	.4	1.0	.4	.1	2.1	
17-19	.0	.0	.3	.1	.1	.4	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.7	33.6	40.5	11.8	1.8	.4	100.0	709

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	3.9	5.8	5.0	4.9	1.8	1.2	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	5
6-7	.0	.6	5.4	5.9	5.1	2.2	2.5	.5	1.2	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	241	7
8-9	.0	.2	4.0	4.0	7.5	5.0	3.9	1.1	1.4	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	284	8
10-11	.0	.8	1.6	2.6	2.6	2.7	1.5	.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	135	7
12-13	.0	.0	.5	.8	.4	.2	.4	.0	.3	.3	.0	.2	.1	.0	.0	.0	.0	.0	.0	32	10
>13	.0	.0	.0	.4	.0	.5	.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	13	10
INDOT	3.6	1.0	.7	.2	.3	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	64	2
TOTAL	37	65	180	189	208	124	96	27	46	15	9	5	3	0	0	0	0	0	0	1004	7
PCT	3.7	6.5	17.9	18.8	20.7	12.4	9.6	2.7	4.6	1.5	.9	.5	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1858-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	2.0	.5	.0	.5	.0	.0	3.8	2.3	.0	2.4	.0	1.0	.0	90.4
NE	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	2.7	.0	.0	.0	97.0
E	5.0	.8	.0	.0	1.7	.0	.0	7.3	1.7	.0	.8	.0	.0	.0	90.0
SE	15.3	7.5	6.3	.0	.0	.0	.0	29.1	4.7	.0	3.1	.3	1.3	.0	61.6
S	15.3	6.7	6.0	.0	.3	.0	.0	27.8	9.9	.3	3.1	.5	.0	.0	57.8
SW	9.8	7.0	4.7	.0	.0	.0	.0	21.4	7.1	.0	4.1	.0	.3	1.1	66.0
W	2.3	6.3	3.5	.0	.0	.0	1.4	12.3	9.2	.0	1.8	.0	.3	.0	75.3
NW	1.4	3.4	.9	.0	.7	.0	.9	7.3	4.8	.7	3.0	.7	.0	.0	83.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	4.6	4.6	.0	.0	.0	.0	10.8	.0	.0	4.6	.0	1.3	.0	83.1
TOT PCT	7.1	4.9	3.4	.0	.3	.0	.3	15.8	6.0	.2	2.9	.2	.4	.3	74.2
TOT OBS:	1315														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER FRZN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.0	4.3	4.3	.0	.0	.0	.3	14.9	5.4	.3	2.9	.0	.9	.0	75.7
06009	7.5	5.8	2.6	.0	.3	.0	.3	15.9	5.8	.0	1.9	.0	.0	.3	76.0
12015	8.0	6.5	3.4	.0	.3	.0	.0	18.2	6.8	.3	4.0	.9	.3	.3	69.1
18021	7.2	3.2	3.5	.0	.6	.0	.6	14.7	5.8	.0	2.9	.0	.3	.6	75.8
TOT PCT	7.1	4.9	3.5	.0	.3	.0	.3	15.9	5.9	.2	2.9	.2	.4	.3	74.2
TOT OBS:	1329														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	6.1	6.7	1.5	.1	.0	15.1	13.1	17.0	10.0	18.0	8.9	12.9	12.3	14.7	17.2	
NE	.3	3.0	2.0	.2	.1	.0	5.6	10.4	4.4	3.0	4.1	4.0	5.7	6.3	7.9	6.7	
E	.4	2.1	1.7	.3	.0	.0	4.6	11.1	2.7	5.0	2.8	4.0	7.7	8.2	4.6	3.7	
SE	.2	2.3	2.6	.9	.2	.0	6.1	14.7	4.3	5.3	5.1	11.3	7.3	4.4	7.1	6.5	
S	.7	4.2	10.5	6.3	2.4	.1	24.2	19.1	23.7	19.3	27.0	14.5	24.7	19.3	27.7	20.0	
SW	.3	3.4	6.8	2.6	.5	.0	13.6	16.2	15.7	16.7	15.8	20.2	11.4	13.6	10.6	10.0	
W	.3	4.7	6.7	2.6	.3	.0	14.7	15.3	15.7	14.3	10.8	19.4	12.1	23.1	15.3	17.4	
NW	.6	4.0	5.4	1.0	.1	.0	11.2	12.7	10.8	17.7	9.6	12.9	12.3	11.4	7.7	16.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1						5.1	.0	5.7	6.7	6.6	4.8	5.8	1.3	4.4	1.7	
TOT DBS	128	457	650	236	56	2	1329	14.4	396	75	273	62	293	79	296	115	
TOT PCT	8.4	29.9	42.5	13.4	3.7	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	2.6	7.8	4.5	.2	.0	15.1	13.1	15.8	16.3	12.8	15.4
NE	1.7	3.2	.6	.1	.0	5.6	10.4	4.5	4.1	5.8	7.3
E	1.3	2.2	.9	.1	.0	4.6	11.1	3.1	3.1	7.8	4.4
SE	.9	2.6	2.2	.3	.1	6.1	14.7	4.5	6.3	6.7	6.9
S	2.5	8.1	9.0	4.3	.3	24.2	19.1	22.9	24.7	23.6	25.5
SW	1.8	5.7	4.8	1.3	.1	13.6	16.2	15.9	16.6	11.9	10.3
W	2.2	6.9	4.1	1.4	.1	14.7	15.3	15.3	12.4	14.4	15.9
NW	2.4	6.0	2.5	.3	.0	11.2	12.7	12.0	10.2	12.1	10.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1				.0	5.1	.0	5.8	6.3	4.8	3.6
TOT DBS	312	649	436	122	10	1329	14.4	411	335	372	411
TOT PCT	20.4	42.4	28.5	8.0	.7	100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.8	3.9	24.8	42.6	19.5	3.4	.0	15.0	100.0	411
0600	6.3	3.3	31.3	40.9	14.3	3.9	.0	14.3	100.0	335
1200	4.8	3.0	30.1	48.8	12.1	3.0	.3	13.9	100.0	372
1800	3.6	2.9	33.6	39.9	15.3	4.4	.2	14.5	100.0	411
TOT	76	50	457	650	236	36	2	14.4		1529
PCT	5.1	3.3	29.9	42.5	15.4	3.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION							MEAN
WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	CLOUD	
				OBSCH	OBS	COVER	
N	6.3	2.2	4.4	3.4		4.0	
NE	2.5	1.3	.3	.5		2.6	
E	1.4	.5	1.1	.9		4.2	
SE	.9	.8	1.4	2.6		5.9	
S	1.1	1.7	6.3	17.1		6.9	
SW	.5	1.7	5.5	5.8		6.5	
W	.8	3.2	6.5	4.1		5.8	
NW	1.3	2.0	3.8	2.6		5.3	
VAR	.0	.0	.0	.0		.0	
CALM	1.9	.7	1.5	1.5		4.6	
TOT OBS	174	147	323	403	1047	5.6	
TOT PCT	16.6	14.0	30.9	38.5	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999	8000+		
.3	.0	.1	.4	3.1	1.0	.5	.0	.1	.2	10.7	
.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	4.1	
.0	.0	.3	.3	.5	.1	.0	.0	.0	.1	2.5	
.1	.0	.1	1.1	1.4	.2	.0	.1	.1	.1	2.3	
1.1	1.1	2.4	4.4	7.3	2.9	1.1	.3	.4	.1	5.2	
.5	.1	.8	1.8	4.3	2.0	.3	.1	.0	.1	3.5	
.1	.2	.5	1.0	4.3	1.8	.1	.1	.1	.0	6.4	
.0	.2	.2	.5	2.6	.9	.2	.1	.1	.0	4.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.1	.0	1.0	.7	.6	.0	.4	.0	2.8	
23	17	49	99	260	99	30	8	18	6	444	1047
2.2	1.6	4.7	9.5	24.8	9.5	2.9	.8	1.1	.6	42.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	1.1	1.6	1.6	1.6	1.7	1.7	1.7	1.7
>4000	1.8	2.4	2.4	2.4	2.5	2.5	2.5	2.5
>3500	3.8	5.2	5.2	5.2	5.3	5.3	5.3	5.3
>3000	9.7	13.7	14.6	14.8	14.8	14.8	14.8	14.8
>2500	23.3	33.8	37.7	39.4	39.6	39.7	39.7	39.7
>2000	28.1	41.5	46.8	48.9	49.0	49.2	49.2	49.2
>1500	29.9	44.8	51.0	53.3	53.5	53.7	53.7	53.7
>1000	30.1	45.7	52.5	54.8	55.1	55.3	55.3	55.3
>500	30.4	46.4	53.3	55.8	56.2	57.3	57.4	57.5
TOTAL	317	484	556	583	587	598	599	600

TOTAL NUMBER OF OBS: 1044

PCT FREQ NM <5/8: 42.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
11.4	9.0	8.5	8.4	8.0	7.5	9.0	8.7	31.9	1.6	1118

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.3	.1	.0	.1	.4	.1	.1	.1	.0	.1	1.3	
	TOT %	.3	.1	.0	.1	.5	.2	.1	.1	.0	.1	1.5	
1/2<1	PCP	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	TOT %	.0	.0	.1	.1	.2	.2	.2	.1	.0	.0	.8	
1<2	PCP	.1	.0	.0	.2	1.1	.2	.2	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	
	TOT %	.1	.0	.0	.2	1.2	.2	.2	.1	.0	.1	2.1	
2<5	PCP	.0	.0	.1	.4	2.5	.6	.2	.1	.0	.2	4.2	
	NO PCP	.3	.1	.1	.0	1.0	.8	.2	.1	.0	.0	2.6	
	TOT %	.3	.1	.2	.5	3.6	1.4	.4	.2	.0	.2	6.8	
5<10	PCP	.3	.0	.1	.8	2.6	1.2	.8	.6	.0	.2	6.7	
	NO PCP	1.1	.3	.6	1.0	4.1	2.7	3.2	1.9	.0	1.1	15.9	
	TOT %	1.3	.3	.7	1.9	6.7	3.9	3.9	2.6	.0	1.3	22.6	
10+	PCP	.2	.0	.1	.2	.4	.6	.7	.2	.0	.0	2.4	
	NO PCP	12.7	5.1	3.5	3.1	12.5	6.9	9.4	7.6	.0	3.2	63.9	
	TOT %	12.9	5.1	3.6	3.3	12.8	7.5	10.1	7.8	.0	3.2	66.3	
TOT OBS													1308
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.1	.0	.1	.2	.1	.1	.0	.0	.0	.6	
	11-21	.2	.0	.0	.0	.1	.1	.0	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.1	.0	.1	.3	.2	.1	.1	.0	.1	1.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.1	.0	.0	.0	.3	.2	.1	.0	.0	.0	.6	
	22+	.0	.0	.0	.2	1.1	.1	.1	.0	.0	.0	1.5	
	TOT %	.1	.0	.0	.2	1.4	.3	.2	.1	.0	.1	2.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	.4	
	4-10	.2	.0	.1	.0	.2	.1	.1	.2	.0	.0	.8	
	11-21	.1	.1	.1	.2	1.1	.8	.3	.1	.0	.0	2.7	
	22+	.0	.0	.1	.3	2.2	.5	.2	.0	.0	.0	3.3	
	TOT %	.4	.1	.2	.5	3.3	1.4	.6	.3	.0	.4	7.3	
5<10	0-3	.0	.0	.1	.0	.2	.2	.1	.1	.0	1.3	2.1	
	4-10	.4	.2	.3	.4	.9	.5	1.3	.7	.0	.0	4.6	
	11-21	.6	.1	.2	.9	2.3	1.8	1.4	1.3	.0	.0	8.9	
	22+	.3	.0	.1	.4	3.0	1.3	1.0	.5	.0	.0	6.6	
	TOT %	1.3	.4	.7	1.8	6.3	3.7	3.9	2.6	.0	1.3	22.2	
10+	0-3	.6	.2	.3	.1	.3	.2	.0	.5	.0	3.4	5.7	
	4-10	3.0	2.7	1.7	1.7	2.8	2.6	3.5	2.9	.0	.0	22.9	
	11-21	3.6	1.9	1.5	1.2	7.0	3.8	5.0	3.6	.0	.0	29.7	
	22+	1.5	.3	.1	.2	2.5	1.2	1.6	.5	.0	.0	7.8	
	TOT %	12.7	5.0	3.6	3.2	12.7	7.8	10.1	7.9	.0	3.4	66.0	
TOT OBS													1412
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	2.1	1.4	6.5	9.6	23.0	11.3	3.8	.3	1.4	.0	59.5	40.5	291
06009	1.3	2.5	3.0	11.0	24.5	7.6	1.3	.0	.8	.8	52.7	47.3	237
12015	3.7	.8	1.6	10.2	25.6	7.7	2.4	1.2	2.0	1.6	56.9	43.1	246
18021	1.7	1.7	6.4	8.1	24.4	10.2	3.4	1.4	.3	.0	57.6	42.4	295
TOT	23	17	49	103	260	100	30	8	12	6	608	461	1069
PCT	2.2	1.6	4.6	9.6	24.3	9.4	2.8	.7	1.1	.6	56.9	43.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.6	1.3	3.1	5.4	23.1	65.5	386
06009	1.9	.3	1.9	8.0	25.7	62.5	323
12015	1.7	1.4	1.7	9.6	22.8	62.8	355
18021	.8	.0	3.0	6.6	17.7	71.8	362
TOT	21	11	34	105	317	938	1426
PCT	1.5	.8	2.4	7.4	22.2	65.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 5000	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 3+	TOTAL OBS
00003	2.1	10.1	23.8	36.0	40.2	286
06009	1.3	6.5	23.7	30.2	46.1	232
12015	3.8	7.1	26.1	32.8	41.2	238
18021	1.7	10.1	22.6	35.4	42.0	285
TOT	23	90	250	393	441	1044
PCT	2.2	8.6	23.9	39.8	42.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.1	.0	.1	.0	.0	.2	4	.5
55/59	.1	.0	.0	.9	.7	1.2	.6	.0	26	3.2
50/54	.0	.1	.0	.9	4.2	7.7	14.2	6.3	269	33.4
45/49	.0	.1	.4	2.2	4.1	16.6	12.8	12.9	396	49.2
40/44	.0	.0	.1	.7	2.2	3.0	3.4	3.1	101	12.5
35/39	.0	.0	.0	.1	.0	.2	.2	.4	8	1.0
30/34	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	1	2	5	36	92	232	251	186	805	100.0
PCT	.1	.2	.6	4.5	11.4	28.8	31.2	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.1	.2	.1	.0	.0	.0	.1
55/59	.7	.3	.0	.8	.8	.4	.2	.4	.0	.1
50/54	7.0	2.9	1.5	2.5	10.1	4.1	2.4	2.7	.0	.2
45/49	7.2	3.4	2.1	2.3	11.6	7.2	8.4	5.7	.0	1.4
40/44	1.7	.9	.5	.7	1.9	1.8	3.2	1.8	.0	.1
35/39	.1	.1	.0	.0	.1	.0	.3	.1	.0	.0
30/34	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	16.9	7.8	4.1	5.5	24.7	13.6	14.7	10.7	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	59	55	50	43	41	39	49.5	411
06009	58	54	52	48	42	38	38	47.6	336
12015	60	56	52	47	42	39	34	47.2	378
18021	66	57	55	49	43	37	35	48.7	406
TOT	66	58	54	48	42	39	34	48.3	1531

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.3	7.2	16.9	28.5	27.5	19.3	78	207		
06009	.0	3.1	9.2	25.5	37.8	24.3	82	196		
12015	.0	5.1	8.6	27.4	32.5	26.4	82	197		
18021	.0	5.7	10.9	33.2	27.5	22.7	80	211		
TOT	1	43	93	233	253	188	80	811		

PERIOD: (PRIMARY) 1949-1974
(OVER-ALL) 1959-1974

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TABLE 17

PCT PRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.8	.0	.0	11	.1	.8
7/8	.0	.0	.0	.2	.1	.7	.3	.0	.0	13	.0	1.2
6	.0	.0	.0	.0	.0	.8	.2	.0	.0	13	.2	.9
5	.0	.0	.0	.1	.5	1.3	.2	.0	.0	25	.1	2.0
4	.0	.0	.1	.1	1.1	2.2	.2	.0	.0	44	.1	3.5
3	.0	.0	.0	.2	2.9	1.1	.0	.0	.0	31	.1	4.1
2	.0	.0	.0	.7	5.3	.7	.0	.0	.0	84	.3	6.5
1	.0	.0	.0	1.5	6.8	.8	.0	.0	.0	113	.1	9.1
0	.0	.0	.2	4.3	8.3	.1	.0	.0	.0	160	.5	12.5
-1	.0	.0	.3	6.8	5.9	.3	.0	.0	.0	164	.2	13.2
-2	.0	.0	.7	8.5	2.8	.0	.0	.0	.0	147	.5	11.5
-3	.0	.0	1.1	6.9	1.3	.1	.0	.0	.0	116	.2	9.2
-4	.0	.0	2.6	3.2	1.1	.0	.0	.0	.0	110	.2	8.7
-5	.0	.1	2.6	2.9	.6	.0	.0	.0	.0	75	.1	6.0
-6	.0	.2	1.9	.8	.2	.1	.0	.0	.0	38	.2	2.9
-7/-8	.0	.5	1.8	.6	.0	.0	.0	.0	.0	35	.1	2.8
-9/-10	.0	.6	.5	.1	.0	.0	.0	.0	.0	14	.0	1.1
-11/-13	.2	.1	.2	.0	.1	.0	.0	.0	.0	8	.0	.7
-14/-16	.0	.2	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	3	19	149	479	459	101	21	0	1	1228	35	1193
PCT	.2	1.9	12.1	39.0	37.1	8.2	1.7	.0	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT PRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.4	.0	.0	.0	2.4	.1	.7	.0	.0	.0	.0	.8
1-2	.0	2.6	1.3	.0	.0	.0	3.9	.0	1.0	.7	.0	.0	.0	1.6
3-4	.0	.8	2.1	.0	.0	.0	2.9	.0	.4	1.4	.0	.0	.0	1.8
5-6	.0	.0	2.3	.5	.0	.0	2.8	.0	.1	.7	.0	.1	.0	1.0
7	.0	.1	1.9	.8	.0	.0	2.8	.0	.1	.2	.1	.0	.0	.5
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	8.7	1.8	.0	.0	16.1	.1	2.3	3.0	.2	.1	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.1	.0	.0	.0	1.2	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	1.3	1.0	.0	.0	.0	2.3
3-4	.0	.2	.7	.0	.0	.0	1.0	.0	.1	.8	.1	.0	.0	1.0
5-6	.0	.1	.1	.1	.0	.0	.4	.0	.0	.4	.3	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.9	.1	.0	.0	4.0	.0	3.0	2.3	1.3	.2	.0	6.9

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	1.6	.1	.0	.0	.0		1.8	.1	1.2	.2	.0	.0	.0		1.4
1-2	.0	1.3	2.9	.0	.0	.0		4.2	.0	1.0	.7	.0	.0	.0		1.7
3-4	.1	1.4	2.6	.8	.0	.0		5.0	.0	.6	1.9	.4	.0	.0		2.9
5-6	.0	.1	3.4	1.8	.3	.0		5.6	.0	.0	1.9	.7	.0	.0		2.7
7	.0	.0	1.7	2.1	.2	.0		4.0	.0	.1	1.2	.5	.0	.0		1.9
8-9	.0	.0	.4	1.1	.1	.0		1.6	.0	.0	.3	.4	.0	.0		.7
10-11	.0	.1	1.2	1.4	.4	.0		3.1	.0	.0	.1	.2	.0	.0		.4
12	.0	.0	.3	.7	.4	.0		1.4	.0	.0	.0	.2	.1	.0		.3
13-16	.0	.0	.3	.5	1.1	.0		1.9	.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.1	.0	.1		.3	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.4	.0		.4	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	4.6	12.7	8.5	3.0	.1		29.3	.0	2.9	6.5	2.4	.3	.0		12.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.2	.0	.0	.0	.0		1.2	.3	1.0	.1	.0	.0	.0		1.4
1-2	.0	1.1	1.3	.0	.0	.0		2.4	.0	1.0	1.2	.0	.0	.0		2.2
3-4	.0	.8	1.1	.1	.0	.0		2.0	.0	.5	1.0	.0	.0	.0		1.4
5-6	.0	.5	1.0	.2	.0	.0		1.8	.0	.0	1.0	.2	.0	.0		1.2
7	.0	.1	1.0	.3	.0	.0		1.4	.0	.0	.8	.0	.0	.0		.8
8-9	.0	.0	.2	.2	.1	.0		.6	.0	.1	.3	.0	.0	.0		.3
10-11	.0	.0	.1	.1	.0	.0		.2	.0	.1	.2	.1	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
17-19	.0	.0	.0	.2	.0	.1		.4	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.2		.5	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.8	4.7	1.3	.1	.1		10.0	.3	2.8	4.7	.5	.0	.0		8.2 92.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	10.3	1.0	.0	.0	.0	19.4	
1-2	.0	9.9	9.6	.0	.0	.0	19.3	
3-4	.1	4.8	11.6	1.4	.0	.0	17.9	
5-6	.0	1.0	10.9	4.0	.4	.0	16.2	
7	.0	.6	7.1	4.0	.3	.0	11.9	
8-9	.0	.1	1.7	2.1	.3	.0	4.2	
10-11	.0	.3	1.8	2.3	.4	.0	5.1	
12	.0	.1	.4	1.0	.7	.0	2.3	
13-16	.0	.0	.4	.7	1.3	.0	2.4	
17-19	.0	.0	.0	.4	.0	.3	.7	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	27.1	44.5	16.1	3.8	.3	100.0	708

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.3	3.3	7.3	3.2	3.9	.7	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	243
6-7	.0	.4	3.9	3.5	4.3	4.8	4.3	1.3	.8	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	296
8-9	.0	.3	3.8	7.0	6.0	4.5	3.5	1.4	2.5	.4	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	329
10-11	.0	.6	1.2	1.1	2.0	1.4	1.5	.8	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	109
12-13	.0	.0	.6	.9	.3	.4	.5	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
>13	.0	.0	.0	.2	.0	.2	.2	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
INDEX	1.6	.3	.5	1.1	1.5	.8	1.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84
TOTAL	21	56	190	225	198	140	127	53	58	16	11	3	1	1	0	0	0	0	0	0	1100
PCT	1.9	5.1	17.3	20.5	18.0	12.7	11.5	4.8	5.3	1.5	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1850-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG MEA
N	1.6	.3	2.0	.0	.0	.0	.3	3.8	.9	.0	3.6	.0	1.0	.0	90.7
NE	.6	.0	2.4	.0	.0	.0	.0	3.0	4.8	.0	3.6	.0	.0	.0	88.6
E	4.7	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	95.3
SE	8.3	1.7	10.4	.0	.0	.0	.0	20.3	6.6	.0	9.1	.0	.8	.0	63.1
S	14.9	2.2	9.3	.0	.0	.0	.0	22.0	8.3	.0	5.0	.3	1.2	.0	63.2
SW	7.7	4.5	3.2	.0	.0	.0	.0	15.4	10.3	.3	2.9	.0	.1	.0	70.9
W	3.0	4.3	3.7	.0	.0	.0	.0	11.0	6.0	.6	4.0	.0	.4	.0	78.0
NW	3.0	2.6	4.4	.0	.0	.0	.6	10.6	3.7	.2	1.5	.0	1.5	.0	82.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	7.1	3.6	.0	.0	.0	1.8	12.5	.0	.0	3.6	.0	.0	.0	83.9
TOT PCT	5.4	2.5	3.8	.0	.0	.0	.2	11.9	5.0	.2	3.7	.1	.8	.0	78.4
TOT OBS: 1232															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG MEA
00003	5.5	1.9	3.2	.0	.0	.0	.0	10.6	4.2	.0	3.9	.0	1.3	.0	80.1
06009	6.2	2.1	2.4	.0	.0	.0	.7	11.0	5.9	.3	2.4	.3	.0	.0	80.0
12015	5.4	2.2	3.7	.0	.0	.0	.3	13.3	6.0	.3	3.5	.0	1.0	.0	75.9
18021	5.4	3.6	3.9	.0	.0	.0	.0	12.8	4.5	.0	4.5	.0	.9	.0	77.3
TOT PCT	5.6	2.5	3.8	.0	.0	.0	.2	12.0	5.1	.2	3.6	.1	.8	.0	78.3
TOT OBS: 1251															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	9.0	10.6	2.6	.1	.0		23.5	12.9		22.7	24.0	26.4	18.2	23.7	21.6	23.8	20.1
NE	.1	2.0	1.0	.1	.2	.0		3.5	11.3		2.3	4.2	2.1	4.3	3.1	7.3	4.9	4.7
E	.2	1.0	.6	.0	.0	.0		1.8	8.8		.0	.0	1.8	2.3	2.8	4.9	2.0	2.1
SE	.1	2.6	2.0	.2	.0	.0		5.0	11.0		2.9	5.2	1.9	4.0	5.1	12.2	7.1	8.9
S	1.2	6.8	5.8	2.3	.7	.1		17.0	13.9		17.7	11.5	15.6	15.3	16.9	13.4	18.9	20.3
SW	.6	6.5	3.2	1.4	.0	.0		13.8	12.3		14.4	15.6	13.1	9.1	12.3	13.5	13.4	13.0
W	1.0	7.1	3.3	1.0	.0	.0		14.4	11.1		17.1	25.0	15.6	18.2	13.1	10.7	10.1	15.1
NW	.6	6.9	7.4	1.4	.0	.0		16.2	12.3		20.0	12.5	17.4	26.1	14.5	10.7	14.3	13.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		3.0	2.1	6.3	2.3	8.4	3.7	3.6	2.1
TOT DBS	134	590	537	127	15	2	1405		11.8		300	48	271	44	286	82	278	96
TOT PCT	9.5	42.0	38.2	9.0	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	4.7	12.8	5.3	.7	.0			23.5	12.9		22.8	25.2	23.2	22.9	
NE	.9	1.9	.4	.2	.0			3.5	11.3		2.3	2.5	4.0	4.8	
E	.7	.9	.2	.0	.0			1.8	8.8		.0	.0	1.8	2.0	
SE	1.4	2.8	.9	.0	.0			5.0	11.0		3.2	1.8	6.7	7.6	
S	3.9	7.9	3.8	1.3	.3			17.0	13.9		16.8	15.7	16.1	19.3	
SW	2.6	8.2	2.6	.5	.0			13.8	12.3		14.6	12.5	13.2	14.8	
W	3.7	8.5	1.9	.2	.0			14.4	11.1		18.2	18.0	12.6	11.4	
NW	3.4	9.1	3.5	.5	.0			16.2	12.3		19.0	18.7	13.7	14.2	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	4.8							4.8	.0		2.9	5.7	7.3	3.2	
TOT DBS	365	731	260	45	4	1405			11.8		348	315	268	374	
TOT PCT	26.0	52.0	18.5	3.2	.3			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1946-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.9	3.7	39.4	41.1	10.9	1.7	.3	12.9	100.0	348	
0600	5.7	3.8	41.9	42.2	6.0	.3	.0	11.5	100.0	315	
1215	7.3	5.2	45.1	33.4	8.2	.8	.0	10.8	100.0	368	
1800	3.2	6.1	41.4	36.9	10.7	1.3	.3	12.1	100.0	374	
TOT	67	67	590	537	127	15	2	11.8		1405	
PCT	4.8	4.8	42.0	38.2	9.0	1.1	.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.3	4.5	8.5	4.1		4.2
NE	.9	.7	1.0	1.0		4.8
E	.5	.0	.6	.2		4.3
SE	.4	.0	2.2	1.7		6.3
S	1.8	1.8	4.7	8.4		6.4
SW	1.2	1.5	4.6	6.5		6.3
W	1.2	2.1	5.9	4.3		5.8
NW	2.6	2.0	7.3	4.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.3	1.2	1.6	999	4.8
TOT OBS	169	130	338	302		5.4
TOT PCT	18.0	13.8	36.0	32.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.1	.2	.2	1.3	2.6	4.0	1.3	.3	.0	.3	15.2	
.0	.0	.0	.0	.4	.9	.1	.0	.0	.0	2.1	
.0	.1	.0	.0	.0	.2	.2	.1	.0	.0	.7	
.1	.0	.1	.3	.5	1.2	.3	.1	.1	.1	1.4	
.7	.5	1.3	1.8	3.0	2.7	.5	.2	.4	.0	5.2	
.2	.3	.4	1.6	3.5	2.7	.8	.2	.1	.1	3.6	
.4	.2	.4	1.4	2.8	2.4	.6	.4	.0	.2	4.6	
.2	.1	.5	1.8	4.3	1.9	1.0	.1	.1	.2	6.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.2	.6	1.4	.2	.0	.0	.0	2.8	
18	13	27	79	167	165	47	13	7	9	394	999
1.9	1.4	2.9	8.4	17.8	17.6	5.0	1.4	.7	1.0	42.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>6	>5	>4	>3
>6500	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>5000	2.4	3.0	3.1	3.1	3.1	3.1	3.1	3.1
>3500	6.1	7.9	8.0	8.0	8.0	8.0	8.0	8.0
>2000	16.1	24.4	25.5	25.6	25.6	25.6	25.6	25.6
>1000	27.9	40.7	43.2	43.6	43.6	43.6	43.6	43.6
>600	32.8	48.1	51.0	52.0	52.1	52.1	52.1	52.1
>300	33.5	50.5	53.8	54.7	54.8	54.8	54.8	54.8
>150	33.7	51.3	54.8	55.9	56.0	56.0	56.0	56.0
>0	33.8	51.7	55.4	56.7	57.1	57.6	57.9	57.9
TOTAL	317	489	520	532	536	541	544	544

TOTAL NUMBER OF OBS: 999

PCT FREQ NM <5/8: 42.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.3	9.9	10.4	7.6	6.5	7.7	12.4	11.3	29.2	1.5	997

PERIOD: (PRIMARY) 1946-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.2	.1	.0	.0	.3	.2	.2	.1	.0	.0	1.1	
	TOT %	.2	.1	.0	.0	.3	.3	.2	.1	.0	.0	1.3	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.2	.1	.0	.1	.1	.0	.0	.5	
	TOT %	.0	.0	.0	.2	.2	.0	.1	.1	.0	.0	.6	
1<2	PCP	.1	.0	.0	.1	.2	.2	.1	.0	.0	.2	.8	
	NO PCP	.0	.0	.0	.0	.3	.2	.1	.1	.0	.1	.7	
	TOT %	.1	.0	.0	.1	.5	.3	.2	.1	.0	.2	1.6	
2<5	PCP	.1	.0	.0	.2	1.3	.8	.2	.4	.0	.1	3.1	
	NO PCP	.4	.0	.0	.1	.3	.3	.2	.1	.0	.0	1.4	
	TOT %	.5	.0	.0	.3	1.6	1.1	.4	.6	.0	.1	4.5	
5<10	PCP	.3	.1	.1	.6	1.7	.6	.9	.5	.0	.3	5.2	
	NO PCP	5.1	.5	.6	1.1	3.4	3.0	2.3	2.7	.0	1.1	19.7	
	TOT %	5.6	.6	.7	1.7	5.1	3.5	3.1	3.2	.0	1.4	24.9	
10+	PCP	.1	.0	.0	.1	.5	.4	.2	.7	.0	.0	2.0	
	NO PCP	17.1	2.7	1.1	2.5	9.1	8.3	9.9	11.7	.0	2.9	65.1	
	TOT %	17.2	2.7	1.1	2.6	9.6	8.6	10.1	12.3	.0	2.9	67.2	
TOT OBS													1221
TOT PCT													29.6 3.4 1.8 4.9 17.3 13.9 14.1 16.3 .0 4.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	4-10	.2	.1	.0	.0	.2	.1	.2	.0	.0	.0	.8	
	11-21	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.3	.1	.0	.0	.3	.3	.2	.1	.0	.0	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	.2	.0	.1	.1	.0	.1	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.0	.0	.1	.3	.1	.2	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.1	.2	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.0	.1	.6	.4	.2	.1	.0	.2	1.7	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	.0	.1	.3	.4	.4	.4	.0	.0	1.8	
	11-21	.2	.0	.0	.2	.4	.3	.0	.1	.0	.0	1.4	
	22+	.1	.0	.0	.0	.9	.2	.0	.1	.0	.0	1.3	
	TOT %	.5	.0	.0	.3	1.6	1.1	.5	.6	.0	.2	4.7	
5<10	0-3	.3	.0	.2	.0	.4	.1	.3	.1	.0	1.4	2.7	
	4-10	1.4	.2	.4	.9	1.4	.9	1.0	.9	.0	.0	7.2	
	11-21	3.1	.3	.1	.7	1.6	2.1	1.5	2.0	.0	.0	11.4	
	22+	.7	.0	.0	.1	1.6	.3	.2	.2	.0	.0	3.0	
	TOT %	5.5	.6	.6	1.7	4.9	3.4	3.0	3.1	.0	1.4	24.3	
10+	0-3	.6	.1	.1	.1	.8	.5	.6	.5	.0	3.0	6.2	
	4-10	7.0	1.7	.7	1.5	4.8	4.8	5.4	5.5	.0	.0	31.4	
	11-21	7.6	.8	.5	1.0	3.4	2.4	3.5	5.3	.0	.0	24.5	
	22+	1.7	.3	.0	.0	.5	.9	.7	1.1	.0	.0	5.3	
	TOT %	16.9	2.8	1.3	2.5	9.5	8.6	10.3	12.5	.0	3.0	67.4	
TOT OBS													1320
TOT PCT													23.4 3.5 1.9 4.9 17.2 13.8 14.2 16.3 .0 4.8 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00Z03	2.4	1.2	2.4	9.5	14.3	16.3	4.4	.8	.0	.0	51.2	48.8	292
06Z09	1.7	1.7	2.6	7.2	13.6	19.1	6.4	.4	1.3	2.1	56.2	43.8	235
12Z15	1.8	.9	4.1	8.1	15.8	15.4	3.6	2.3	1.4	.5	59.8	46.2	221
18Z21	1.5	1.5	2.7	8.0	26.1	17.6	5.0	1.9	.4	1.1	65.9	34.1	261
TOT	18	13	28	80	171	166	47	13	7	9	392	417	969
PCT	1.9	1.3	2.9	8.3	17.6	17.1	4.9	1.3	.7	.9	57.0	43.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00Z03	.9	.9	1.5	4.5	21.5	70.7	331
06Z09	.3	.7	.3	4.2	25.7	68.7	307
12Z15	1.7	.6	2.2	6.2	26.7	62.6	336
18Z21	2.0	.3	2.3	4.6	23.2	67.5	345
TOT	17	8	22	46	125	901	1339
PCT	1.3	.6	1.6	4.9	24.3	67.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 3+	TOTAL OBS
00Z03	2.4	6.5	18.6	34.0	47.4	247
06Z09	1.8	5.8	16.4	41.2	42.5	226
12Z15	1.9	6.9	19.4	35.6	44.9	216
18Z21	1.6	5.2	16.4	51.2	32.4	250
TOT	18	57	166	182	391	939
PCT	1.9	6.1	17.7	40.7	41.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
60/64	.0	.0	.1	.3	.4	.4	.0	.0	9	1.1
55/59	.0	.0	.0	.8	1.0	1.5	2.0	.6	47	5.9
50/54	.0	.0	.3	.6	4.8	9.2	16.0	10.2	326	41.1
45/49	.0	.0	.1	1.1	6.4	15.1	11.5	13.2	377	47.5
40/44	.0	.0	.0	.1	.8	1.0	1.5	.8	33	4.2
35/39	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	4	23	106	217	247	197	794	100.0
PCT	.0	.0	.9	2.9	13.4	27.3	31.1	24.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.3
.4	.1	.1	.0	.3	.6	.1	.0	.0	.0
1.3	.6	.0	.2	1.1	.9	.7	.9	.0	.3
8.7	1.1	.9	2.6	10.6	5.6	4.7	6.5	.0	.4
9.9	1.6	.8	1.0	7.2	6.7	9.9	8.9	.0	1.4
.7	.0	.0	.2	.3	1.2	.9	.9	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
21.1	3.4	1.8	3.9	19.6	14.5	16.5	17.3	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	62	60	57	50	45	44	41	50.7	348
06Z09	61	57	53	48	44	40	37	48.3	321
12Z15	61	57	54	48	44	42	40	48.8	373
18Z21	65	62	57	50	44	41	37	50.3	371
TOT	65	60	56	49	44	42	37	49.6	1413

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00Z03	.0	6.3	19.4	27.7	26.2	20.4	78	206		
06Z09	.0	1.1	13.3	29.3	28.7	27.7	82	188		
12Z15	.0	1.5	7.1	27.3	34.3	29.8	83	198		
18Z21	.0	4.3	13.0	26.0	34.6	22.1	80	208		
TOT	0	27	106	220	248	199	81	800		

PERIOD: (PRIMARY) 1946-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0039 NEWPORT
44.7N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.3	.2	.2	.0	7	.0	.6
9/10	.0	.0	.0	.0	.1	.2	.4	.0	8	.2	.5
7/8	.0	.0	.0	.1	.4	.8	.1	.1	17	.0	1.5
6	.0	.0	.0	.2	.3	.4	.0	.0	9	.0	.8
5	.0	.0	.1	.4	1.6	.4	.0	.0	28	.1	2.4
4	.0	.0	.4	1.3	1.8	.2	.0	.0	41	.2	3.4
3	.0	.0	.3	2.1	2.4	.1	.0	.0	35	.3	4.6
2	.0	.1	.4	5.2	2.7	.1	.0	.0	97	.5	8.0
1	.0	.0	.7	8.1	1.3	.0	.0	.0	92	.6	7.3
0	.0	.0	2.5	8.7	1.1	.1	.0	.0	141	.4	12.0
-1	.0	.0	3.6	7.9	.8	.2	.0	.0	142	.4	12.0
-2	.0	.0	7.7	4.2	.4	.0	.0	.0	141	.4	12.0
-3	.1	.0	7.2	3.0	.3	.0	.0	.0	120	.3	10.3
-4	.0	.6	7.8	.6	.3	.0	.0	.0	106	.1	9.2
-5	.0	1.4	3.4	.6	.1	.0	.0	.0	63	.1	5.4
-6	.0	1.2	1.2	.1	.0	.0	.0	.0	29	.0	2.3
-7/-8	.0	1.2	1.1	.1	.2	.0	.0	.0	30	.1	2.5
-9/-10	.0	.3	.4	.0	.0	.0	.0	.0	8	.0	.7
-11/-13	.3	.1	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	4	56	420	461	160	29	8	1	1139	40	1099
PCT	.4	4.9	36.9	40.3	14.0	2.6	.7	.1	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	3.4	.1	.0	.0	.0	4.5	.0	.8	.0	.0	.0	.0	.8
1-2	.0	4.3	3.3	.0	.0	.0	7.6	.0	.3	.5	.0	.0	.0	.9
3-4	.0	2.0	5.8	.3	.0	.0	8.1	.0	.2	.5	.0	.0	.0	.7
5-6	.0	.6	2.0	.4	.0	.0	3.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.1	.5	.5	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.7	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.5	12.3	1.9	.0	.0	25.6	.0	1.3	1.2	.0	.0	.0	2.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.3	.1	.0	.0	.0	.4	.0	.9	.6	.0	.0	.0	1.5
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.4	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.4	.0	.0	.0	1.2	.0	1.7	1.8	.1	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

APRIL
TABLE 18 (CONT)

AREA 0039 NEWPORT
44.7N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SW	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.1	.0	.0	.0	2.1	.2	1.5	.0	.0	.0	.0	.0	1.7
1-2	.1	2.6	.7	.0	.0	.0	3.4	.1	2.7	.9	.0	.0	.0	.0	3.7
3-4	.0	.6	2.3	.3	.0	.0	3.2	.0	1.0	2.2	.0	.0	.0	.0	3.1
5-6	.0	.5	1.9	1.1	.0	.0	3.5	.0	.6	1.5	.2	.0	.0	.0	2.3
7	.0	.0	.7	.4	.0	.0	1.1	.0	.7	.7	.7	.0	.0	.0	.7
8-9	.0	.4	.0	.6	.0	.0	1.0	.0	.7	.5	.0	.0	.0	.0	1.3
10-11	.0	.0	.0	.1	.1	.0	.3	.0	.7	.4	.0	.0	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.6	.0	.7	.0	.0	.0	.7	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.1	.1	.3	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.9	5.7	2.8	.9	.3	15.9	.3	5.9	6.1	1.3	.0	.0	.0	13.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NW	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.7	.0	.0	.0	.0	2.1	.4	1.9	.0	.0	.0	.0	.0	2.3	
1-2	.6	2.8	1.1	.0	.0	.0	4.5	.0	2.6	2.3	.0	.0	.0	.0	4.9	
3-4	.0	1.3	2.2	.1	.0	.0	3.7	.0	1.0	3.8	.2	.0	.0	.0	5.0	
5-6	.0	.4	1.1	.5	.0	.0	2.0	.0	.8	2.3	.7	.0	.0	.0	3.8	
7	.0	.1	.1	.1	.0	.0	.4	.0	.0	.4	.5	.0	.0	.0	.9	
8-9	.0	.1	.1	.1	.0	.0	.4	.0	.0	.2	.0	.0	.0	.0	.2	
10-11	.0	.1	.0	.1	.0	.0	.3	.0	.0	.7	.1	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	6.6	4.7	1.0	.0	.0	13.3	.4	6.3	9.0	1.9	.0	.0	.0	17.6	

93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.0	11.8	.3	.0	.0	.0	21.1	
1-2	.7	16.6	9.6	.0	.0	.0	26.9	
3-4	.0	6.3	17.2	.9	.0	.0	24.4	
5-6	.1	2.8	9.7	3.0	.0	.0	15.7	
7	.0	.3	2.5	1.4	.0	.0	4.3	
8-9	.0	.7	1.3	1.9	.0	.0	4.0	
10-11	.0	.1	.4	.9	.1	.0	1.6	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.3	.6	.0	.9	
17-19	.0	.0	.0	.3	.1	.1	.6	
20-22	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.9	38.7	41.1	9.1	.9	.3	100.0	669

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	6.3	9.6	6.5	3.4	1.7	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
6-7	.0	1.4	5.3	6.4	4.9	2.4	1.3	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	6
8-9	.0	1.0	3.2	6.7	3.5	3.9	1.2	.3	.8	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	206	6
10-11	.0	.3	.6	1.5	1.9	.4	.8	.5	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	70	8
12-13	.0	.0	.3	.4	.4	.6	.4	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	9
>13	.0	.0	.0	.4	.0	.0	.1	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	11
INDET	4.1	1.1	2.5	2.1	.9	.3	.6	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	3
TOTAL	61	120	208	233	145	92	50	19	26	11	2	1	0	0	0	0	0	0	0	968	5
PCT	6.3	12.4	21.3	24.1	15.0	9.3	5.2	2.0	2.7	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1956-1973
(OVER-ALL) 1870-1973

MAY

AREA 0039 NEWPORT
44.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							ND SIG WEA
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.7	.4	1.2	.0	.0	.0	.0	2.2	1.3	.0	4.4	.2	1.2	.0	90.6
NE	3.1	.0	3.4	.0	.0	.0	.0	8.5	.4	.0	5.7	.0	.0	.0	87.4
E	7.2	.0	.0	.0	.0	.0	.0	7.2	4.1	.0	6.2	.0	4.1	.0	78.4
SE	22.5	2.0	4.0	.0	.0	.0	.0	28.5	8.0	.0	1.5	.0	.0	.0	62.0
S	13.4	3.2	6.7	.0	.0	.0	.0	21.4	1.7	.0	4.3	.0	.3	.0	72.3
SW	9.7	1.8	5.9	.0	.0	.0	.0	17.2	3.0	.0	5.1	.7	1.0	.0	73.1
W	3.9	3.1	3.0	.0	.0	.0	.0	10.0	4.5	.0	2.7	.0	.9	.0	81.9
NW	1.9	1.2	.8	.0	.0	.0	.0	3.9	1.4	.0	6.1	.1	1.9	.0	86.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9	.0	3.9	.0	.0	.0	.0	7.9	1.7	.0	2.8	.0	.0	.0	87.6
TOT PCT	4.4	1.2	2.7	.0	.0	.0	.0	8.0	2.0	.0	4.5	.2	1.1	.0	84.4
TOT OBS:	1995														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							ND SIG WEA
	RAIN	RAIN SHWR	PRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	2.8	.4	2.1	.0	.0	.0	.0	5.1	1.3	.0	5.5	.4	2.1	.0	85.7
06009	4.7	1.0	3.1	.0	.0	.0	.0	8.6	1.8	.0	3.1	.0	.6	.0	85.8
12015	6.6	2.5	3.7	.0	.0	.0	.0	12.6	1.9	.2	3.7	.0	.6	.0	81.1
18021	3.4	1.1	1.7	.0	.0	.0	.0	5.8	2.8	.0	5.8	.2	.9	.0	84.3
TOT PCT	4.3	1.2	2.6	.0	.0	.0	.0	7.9	2.0	.0	4.6	.1	1.1	.0	84.3
TOT OBS:	2035														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.1	12.2	21.1	2.6	.1	.0		37.1	13.3		35.5	34.7	41.4	31.1	39.1	31.9	35.6	29.0
NE	.2	1.9	1.0	.2	.0	.0		3.3	10.3		2.7	5.1	2.9	7.3	3.1	2.4	4.2	3.0
E	.1	.8	.3	.0	.0	.0		1.2	7.6		1.0	4.1	1.0	1.2	1.6	1.8	.9	1.2
SE	.2	1.4	.8	.2	.1	.0		2.7	11.8		1.4	2.0	2.0	1.2	3.0	9.6	2.6	6.7
S	.3	5.7	5.8	.6	.1	.0		12.6	11.8		12.1	6.6	8.7	14.6	11.0	14.2	17.1	20.1
SW	.5	4.1	2.5	.4	.1	.0		7.6	10.4		7.6	15.8	9.0	7.3	6.2	12.7	5.8	8.8
W	.9	4.9	2.6	.2	.1	.0		8.6	9.4		10.3	16.3	6.9	6.1	8.2	6.9	8.0	12.5
NW	.6	8.8	8.2	.7	.0	.0		18.4	11.3		20.6	13.3	17.8	26.2	18.4	18.1	16.9	16.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0		8.7	2.0	10.3	4.9	9.5	2.4	8.9	2.4
TOT OBS	276	879	929	108	10	0	2198		10.8		518	49	467	41	465	83	493	82
TOT PCT	12.6	39.8	42.3	4.9	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
										03	09	15	21	
N	5.4	20.3	10.6	.7	.0		37.1	13.3	35.4	40.6	38.0	34.7		
NE	1.0	1.8	.5	.1	.0		3.3	10.3	2.9	3.2	3.0	4.0		
E	.6	.5	.1	.0	.0		1.2	7.6	1.3	1.0	1.6	1.0		
SE	.7	1.4	.4	.1	.0		2.7	11.8	1.5	2.0	4.0	3.2		
S	2.8	7.5	2.0	.3	.0		12.6	11.8	11.6	9.2	11.5	17.6		
SW	2.5	4.0	.9	.1	.0		7.6	10.4	8.3	8.9	7.2	6.2		
W	3.4	4.4	.7	.2	.0		8.6	9.4	10.8	6.8	8.0	8.6		
NW	4.1	11.4	2.7	.2	.0		18.4	11.3	19.9	18.5	18.3	16.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	8.6						8.6	.0	8.1	9.8	8.4	8.0		
TOT OBS	639	1127	394	36	2	2198		10.8	567	508	548	575		
TOT PCT	29.1	51.3	17.9	1.6	.1		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1956-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	8.1	3.4	33.3	49.2	5.3	.7	.0	11.0	100.0	567
0600	9.8	3.1	40.2	39.8	6.7	.4	.0	11.1	100.0	508
1215	8.4	4.9	40.3	42.2	3.8	.4	.0	10.4	100.0	546
1821	8.0	4.5	45.4	37.7	4.0	.3	.0	10.3	100.0	575
TOT	188	88	875	929	108	10	0	10.8		2198
PCT	8.6	4.0	39.8	42.3	4.9	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	12.1	6.8	9.0	9.9		4.4
NE	.9	.8	1.0	.7		4.4
E	.2	.3	.2	.4		5.1
SE	.1	.1	.3	1.4		6.8
S	.5	1.1	4.6	6.6		6.7
SW	.6	.8	2.5	2.9		6.2
W	1.1	1.5	3.2	2.2		5.5
NW	3.1	2.8	7.0	5.2		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.7	2.0	2.5	3.8		5.4
TOT OBS	342	272	310	554	1678	5.2
TOT PCT	20.4	16.2	20.4	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.2	.1	.5	1.6	3.3	7.7	.5	.2	.2	.3	22.0	
NE	.2	.0	.0	.1	.5	.4	.1	.0	.0	.1	2.1	
E	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.6	
SE	.1	.1	.2	.2	.4	.5	.0	.0	.1	.0	.5	
S	.3	.2	.6	1.5	3.4	2.4	.4	.7	.0	.2	3.1	
SW	.1	.2	.3	.5	1.2	1.8	.2	.1	.1	.0	2.2	
W	.1	.0	.1	.7	1.7	1.5	.3	.1	.0	.0	3.7	
NW	.6	.1	.3	1.7	3.1	3.6	.5	.3	.2	.1	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.1	.3	.1	1.4	1.7	.4	.5	.1	.1	5.0	
TOT OBS	44	14	37	108	256	323	40	32	12	14	788	1678
TOT PCT	2.6	.8	2.2	6.4	15.3	19.8	2.4	1.9	.7	.8	47.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6000	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	2.5	3.2	3.4	3.4	3.4	3.4	3.4	3.4
= OR >3500	4.4	5.4	5.7	5.7	5.8	5.8	5.8	5.8
= OR >2000	16.3	24.1	25.3	25.3	25.3	25.3	25.3	25.3
= OR >1000	24.8	36.8	39.5	40.2	40.4	40.5	40.5	40.5
= OR >600	28.9	42.3	45.6	46.4	46.7	46.9	46.9	46.9
= OR >300	29.8	44.0	47.7	48.6	48.8	49.0	49.0	49.0
= OR >150	29.8	44.3	48.4	49.3	49.6	49.9	49.9	49.9
= OR >0	29.8	44.3	48.5	49.5	49.9	51.4	52.2	52.5
TOTAL	506	752	823	840	847	872	885	891

TOTAL NUMBER OF OBS: 1697

PCT FREQ NM <5/8: 47.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.6	6.4	12.5	9.2	7.9	5.9	10.5	7.7	26.9	2.5	1757

PERIOD: (PRIMARY) 1956-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.9	.2	.0	.0	.3	.1	.1	.5	.0	.2	2.2	
	TOT %	.9	.2	.0	.0	.4	.2	.1	.5	.0	.2	2.3	
1/2<1	PCP	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	TOT %	.2	.0	.0	.1	.2	.0	.0	.1	.0	.0	.6	
1<2	PCP	.2	.0	.0	.1	.5	.2	.0	.0	.0	.1	.9	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.3	.0	.0	.1	.5	.2	.0	.1	.0	.1	1.1	
2<5	PCP	.2	.1	.0	.2	1.1	.6	.1	.3	.0	.2	2.7	
	NO PCP	.8	.0	.0	.1	.3	.4	.2	.4	.0	.1	2.3	
	TOT %	1.0	.1	.0	.3	1.3	1.0	.4	.6	.0	.3	4.9	
5<10	PCP	.4	.1	.1	.4	.8	.5	.5	.3	.0	.4	3.4	
	NO PCP	7.1	.7	.2	.3	2.6	1.7	1.8	3.6	.0	2.3	20.3	
	TOT %	7.5	.8	.3	.7	3.4	2.2	2.3	3.9	.0	2.7	23.7	
10+	PCP	.1	.0	.0	.0	.1	.1	.2	.1	.0	.1	.7	
	NO PCP	27.9	2.2	.9	1.4	6.3	4.0	3.5	12.9	.0	5.7	66.7	
	TOT %	28.0	2.2	.9	1.4	6.3	4.1	3.6	13.0	.0	5.8	67.4	
TOT OBS													1993
TOT PCT													
37.7 3.3 1.2 2.3 12.1 7.7 8.4 18.2 .0 8.9 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.3	.0	.0	.0	.2	.1	.0	.2	.0		.8	
	11-21	.6	.1	.0	.0	.2	.1	.0	.3	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.8	.2	.0	.0	.4	.2	.0	.5	.0	.1	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.1	.0	.0	.0	.1	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0		.4	
	11-21	.2	.0	.0	.0	.3	.0	.0	.1	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.0	.0	.1	.4	.1	.0	.1	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.3	.0	.0	.2	.3	.4	.1	.3	.0		1.8	
	11-21	.6	.0	.0	.1	.7	.4	.2	.2	.0		2.3	
	22+	.1	.0	.0	.0	.2	.1	.0	.1	.0		.5	
	TOT %	.9	.1	.0	.3	1.4	1.0	.4	.6	.0	.2	4.9	
5<10	0-3	.2	.0	.0	.0	.0	.1	.2	.0	.0	2.6	3.2	
	4-10	2.9	.4	.2	.3	1.4	1.2	1.3	1.6	.0		8.6	
	11-21	4.1	.3	.0	.3	1.8	.8	.7	1.8	.0		9.7	
	22+	.7	.0	.0	.2	.2	.0	.1	.3	.0		1.4	
	TOT %	7.2	.7	.3	.7	3.4	2.1	2.3	3.6	.0	2.6	23.1	
10+	0-3	.9	.1	.1	.2	.3	.4	.6	.5	.0	5.8	8.9	
	4-10	9.3	1.4	.6	.8	2.9	2.3	3.2	6.7	.0		27.4	
	11-21	16.1	.6	.2	.5	2.9	1.1	1.6	5.8	.0		28.7	
	22+	1.9	.2	.0	.0	.3	.3	.1	.3	.0		3.1	
	TOT %	28.2	2.3	.9	1.3	6.3	4.2	5.6	13.3	.0	5.8	68.1	
TOT OBS													2079
TOT PCT													
37.7 3.3 1.2 2.6 12.1 7.6 8.3 18.3 .0 8.9 100.0													

PERIOD: (PRIMARY) 1956-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GHT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.2	.4	2.4	1.3	12.6	15.4	2.4	.9	.7	.4	42.7	57.3	454
06009	1.5	.7	2.9	4.6	15.5	20.6	1.9	2.9	.5	.5	51.7	48.3	412
12015	2.6	1.0	1.3	9.0	15.9	21.1	2.8	.0	1.3	1.3	56.3	43.7	389
18021	4.1	1.1	2.0	6.5	16.1	22.0	2.2	3.5	.4	1.1	58.9	41.1	460
TOT	45	14	37	108	257	338	40	32	12	14	897	818	1715
PCT	2.6	.8	2.2	6.3	15.0	19.7	2.3	1.9	.7	.8	52.3	47.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GHT)							
00003	2.0	.5	1.3	4.1	17.1	75.0	555
06009	1.4	1.0	1.0	5.8	29.8	61.0	500
12015	1.9	.8	1.2	5.4	27.9	62.9	520
18021	3.7	.2	.9	4.6	18.9	71.7	545
TOT	48	13	23	105	492	1439	2120
PCT	2.3	.6	1.1	5.0	23.2	67.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
(GHT)						
00003	2.2	5.3	15.3	29.6	55.1	450
06009	1.5	5.6	15.9	37.3	46.8	408
12015	2.6	5.5	18.2	38.4	43.4	385
18021	4.2	7.7	17.4	42.3	40.3	454
TOT	45	103	283	625	789	1697
PCT	2.7	6.1	16.7	36.8	46.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.3	.3	.3	4	.5
60/64	.0	.0	.3	.5	.6	1.8	1.2	.3	36	4.6
55/59	.0	.0	.1	.9	4.2	7.9	8.3	3.7	197	25.2
50/54	.0	.0	.1	.8	6.3	13.7	25.4	11.5	451	57.7
45/49	.0	.0	.0	.1	1.8	3.8	3.6	1.9	88	11.3
40/44	.0	.0	.0	.0	.0	.1	.3	.3	5	.6
TOTAL	0	0	4	18	101	214	304	140	781	100.0
PCT	.0	.0	.5	2.3	12.9	27.4	38.9	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.3	.1	.0	.0	.0	.0	.1	.0	.0
60/64	1.9	.1	.0	.1	.6	.4	.1	1.1	.4
55/59	7.6	.8	.3	1.3	4.1	2.2	2.5	5.4	.0
50/54	24.6	1.5	1.1	1.7	6.5	4.8	4.2	11.6	.0
45/49	3.9	.2	.1	.3	.6	.4	2.1	3.2	.0
40/44	.1	.0	.1	.0	.2	.1	.0	.2	.0
TOTAL	38.4	2.8	1.6	3.5	12.0	7.8	8.9	21.5	.0
PCT	38.4	2.8	1.6	3.5	12.0	7.8	8.9	21.5	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GHT)									
00003	68	65	61	55	48	45	39	54.8	577
06009	63	60	56	52	47	45	39	52.4	512
12015	63	59	56	52	46	43	39	51.7	558
18021	66	62	60	54	48	44	39	53.9	572
TOT	68	63	59	53	47	44	39	53.2	2219

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GHT)										
00003	.0	5.7	16.1	32.8	32.8	12.5	78	192		
06009	.0	.5	9.7	23.1	46.2	20.5	82	195		
12015	.0	1.5	7.2	28.2	37.9	25.1	83	195		
18021	.0	3.3	17.5	25.6	39.8	13.7	79	211		
TOT	0	22	101	217	311	142	80	793		

PERIOD: (PRIMARY) 1956-1973
(OVER-ALL) 1870-1973

MAY

AREA 0039 NEWPORT
64.7N 124.8W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	TOT	N	WD
	40	44	48	52	56	60	64	68		FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.2	.2	9	.0	.5
9/10	.0	.0	.0	.1	.1	.1	.7	.1	18	.1	.8
7/8	.0	.0	.0	.0	.2	.8	.6	.1	33	.1	1.6
6	.0	.0	.0	.1	.6	.9	.3	.0	34	.2	1.6
5	.0	.0	.0	.0	1.0	2.1	.6	.0	72	.3	3.4
4	.0	.0	.1	.2	2.5	1.8	.3	.0	91	.3	4.5
3	.0	.0	.1	.4	3.7	2.6	.0	.0	129	.3	6.4
2	.0	.0	.0	1.9	4.6	1.4	.2	.0	156	.3	7.9
1	.0	.0	.3	2.1	7.9	1.3	.0	.0	222	.2	11.4
0	.0	.1	.3	5.5	7.0	.9	.1	.0	267	.7	13.2
-1	.0	.1	.2	6.4	6.6	.3	.0	.0	258	.4	13.0
-2	.0	.1	1.3	7.2	3.8	.3	.0	.0	241	.8	11.7
-3	.0	.1	1.2	4.6	2.0	.0	.0	.0	152	.3	7.6
-4	.2	.1	2.0	3.4	.6	.0	.0	.0	120	.2	6.1
-5	.1	.0	.9	1.1	.3	.1	.0	.0	47	.1	2.4
-6	.0	.1	.4	.7	.1	.0	.0	.0	23	.2	1.0
-7/-8	.1	.2	1.0	.3	.1	.0	.0	.0	30	.1	1.5
-9/-10	.1	.1	.3	.1	.0	.1	.0	.0	9	.0	.5
-11/-13	.0	.1	.2	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	6	13	654	783	243	8	1917	85	1832		
PCT	.3	.7	8.0	34.1	40.8	12.7	2.9	.4	100.0	4.4	95.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	3.3	.5	.0	.0	.0	4.4	.2	.8	.1	.0	.0	.0	.0	1.1	
1-2	.2	3.9	3.7	.0	.0	.0	7.8	.0	.2	.1	.0	.0	.0	.0	.4	
3-4	.1	3.5	8.5	.3	.0	.0	12.3	.0	.1	.3	.1	.0	.0	.0	.3	
5-6	.0	1.0	4.1	.4	.0	.0	7.5	.0	.1	.2	.0	.0	.0	.0	.3	
7	.0	.4	3.2	.7	.0	.0	4.2	.0	.0	.2	.0	.0	.0	.0	.3	
8-9	.1	.1	1.2	.3	.1	.0	1.8	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.1	1.2	.4	.0	.0	1.7	.0	.0	.1	.0	.0	.0	.0	.1	
12	.0	.1	.5	.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	12.3	24.9	2.4	.1	.0	40.7	.2	1.3	1.1	.3	.0	.0	.0	2.9	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0	.4	.1	.6	.0	.0	.0	.0	.0	.7	
1-2	.0	.3	.1	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.0	.4	
3-4	.0	.1	.1	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.7	.2	.0	.0	.0	1.0	.1	1.1	.4	.0	.0	.0	.0	1.6	

PERIOD: (OVER-ALL) 1963-1973

MAY
TABLE 18 (CONT)

AREA 0039 NEWPORT
44.7N 124.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.8	.2	.0	.0	.0	2.1	.3	2.2	.2	.0	.0	.0	2.6
1-2	.1	1.6	.8	.0	.0	.0	2.5	.1	.8	.3	.0	.0	.0	1.2
3-4	.0	1.1	1.5	.1	.0	.0	2.8	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.7	1.6	.1	.0	.0	2.4	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	1.1	.1	.0	.0	1.2	.0	.1	.1	.0	.0	.0	.2
8-9	.0	.1	.2	.0	.0	.0	.3	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.3	5.7	.3	.0	.0	11.4	.4	3.7	1.7	.1	.0	.0	5.9

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	2.3	.2	.0	.0	.0	3.2	.4	3.8	.3	.0	.0	.0	4.5	88.2
1-2	.1	1.2	.4	.0	.0	.0	1.7	.2	2.5	1.9	.0	.0	.0	4.6	
3-4	.0	.7	1.3	.1	.0	.0	2.1	.0	1.8	2.4	.1	.0	.0	4.3	
5-6	.0	.2	.2	.0	.0	.0	.4	.0	.5	1.1	.1	.0	.0	1.7	
7	.0	.1	.2	.0	.0	.0	.3	.0	.0	1.1	.1	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.3	2.4	.1	.0	.0	7.8	.6	8.7	7.2	.5	.0	.0	17.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.2	15.2	1.4	.0	.0	.0	30.8	1341
1-2	.7	11.0	7.5	.0	.0	.0	19.1	
3-4	.1	7.8	14.8	.7	.0	.0	23.4	
5-6	.0	2.7	9.6	.6	.0	.0	12.9	
7	.0	.9	6.1	.8	.0	.0	7.5	
8-9	.1	.2	1.9	.6	.1	.0	2.9	
10-11	.0	.1	1.5	.5	.0	.0	2.2	
12	.0	.1	.5	.1	.0	.0	.7	
13-16	.0	.0	.1	.3	.0	.0	.4	
17-19	.0	.0	.1	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.0	37.7	43.5	3.7	.1	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	8.5	11.9	7.2	2.7	1.1	.7	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	614	4
6-7	.0	2.4	8.2	6.5	4.3	1.4	1.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	400	5
8-9	.0	1.8	3.4	6.1	2.3	1.8	1.2	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	6
10-11	.0	2.6	.7	1.0	1.1	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	5
12-13	.0	.0	.7	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
>13	.0	.0	.0	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INERT	3.3	1.8	6.5	2.4	1.3	.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293	3
TOTAL	95	298	317	413	214	98	71	29	21	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1763	4
PCT	9.4	16.9	29.3	23.4	12.1	5.6	4.0	1.6	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1959-1973
(OVER-ALL) 1975-1973

JUNE

AREA 0039 NEWPORT
44.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLV. SNOW	NO SIG WEA
N	.5	.2	1.5	.0	.0	.0	.0	2.2	.2	.1	4.0	.0	2.0	.1	91.4
NE	.0	3.2	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	1.6	.8	94.4
E	.0	.0	8.2	.0	.0	.0	.0	8.2	8.2	.0	8.2	.0	.0	.0	75.3
SE	28.3	.0	7.3	.0	.0	.0	.0	32.1	1.9	.0	.9	.0	.0	.0	65.1
S	15.2	.5	12.9	.0	.0	.0	.0	28.7	3.3	.0	3.7	.5	1.4	.5	61.9
SW	7.6	1.6	8.4	.0	.0	.0	.0	17.0	4.5	.5	4.9	.0	1.4	.0	71.8
W	4.5	2.8	3.1	.0	.0	.0	.0	12.4	3.1	.0	3.8	.0	2.2	.0	76.5
NW	1.3	1.4	3.0	.0	.0	.0	.0	5.7	2.0	.3	3.7	.0	1.1	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.5	7.8	.0	.0	.0	.0	9.9	.5	.0	2.6	.0	.9	.0	86.3
TOT PCT	3.4	.9	4.4	.0	.0	.0	.0	8.7	1.8	.1	3.8	.0	1.5	.1	84.0
TOT OBS:	2045														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG	NO SIG WEA
00003	3.5	.6	3.1	.0	.0	.0	.0	7.2	1.7	.0	4.4	.2	1.3	.0	85.3
06009	3.1	.8	4.9	.0	.0	.0	.0	8.8	1.8	.4	3.3	.0	1.2	.0	84.4
12015	3.6	1.3	6.5	.0	.0	.0	.0	11.3	1.7	.0	2.7	.0	.8	.0	83.5
18021	3.1	.8	3.1	.0	.0	.0	.0	6.9	1.7	.2	4.4	.0	2.7	.4	83.7
TOT PCT	3.3	.9	4.4	.0	.0	.0	.0	8.5	1.7	.1	3.8	.0	1.5	.1	84.3
TOT OBS:	2103														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.1	16.0	18.0	3.0	.2	.0		38.3	12.7	39.1	33.7	41.8	31.3	36.5	31.3	39.4	30.2		
NE	.1	1.0	.3	.0	.0	.0		1.4	8.3	.4	.0	1.6	.3	2.4	2.9	1.6	.6		
E	.0	.3	.2	.0	.0	.0		.6	10.9	.2	.0	.4	.0	.7	.0	1.0	1.2		
SE	.2	.7	.5	.1	.0	.0		1.3	10.4	1.1	.7	.9	2.1	1.1	8.3	2.1	1.9		
S	.6	4.4	3.7	.8	.0	.0		9.5	11.8	9.1	14.1	9.0	14.6	7.6	20.8	9.3	11.7		
SW	.4	5.8	3.4	.1	.0	.0		9.8	9.7	10.6	13.6	8.5	19.3	9.8	9.2	7.9	13.4		
W	.6	5.8	2.4	.1	.0	.0		8.9	8.9	8.0	7.6	9.2	12.3	9.2	4.2	9.4	10.2		
NW	.7	11.3	8.0	.9	.0	.0		20.9	10.9	24.0	28.3	20.7	15.6	20.0	20.0	17.7	23.8		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	9.1							9.1	.0	7.3	.0	7.9	4.2	12.7	5.3	11.4	4.9		
TOT OBS	286	1010	811	116	4	0	2227		10.3		306	89	479	48	510	60	474		
TOT PCT	12.8	43.4	36.4	3.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	12	18
N	6.9	21.9	8.9	.6	.0		38.3	12.7	38.4	40.8	35.9	38.1	
NE	.8	.7	.1	.0	.0		1.4	8.3	.3	1.3	2.3	1.4	
E	.3	.1	.1	.0	.0		.6	10.9	.2	.3	.7	1.0	
SE	.4	.7	.3	.0	.0		1.3	10.4	1.1	1.0	1.9	2.0	
S	2.3	5.2	1.8	.2	.0		9.5	11.8	9.7	9.3	9.0	9.9	
SW	3.2	5.8	.8	.0	.0		9.8	9.7	11.2	9.3	9.7	8.7	
W	3.4	5.0	.5	.0	.0		8.9	8.9	7.9	9.3	8.6	9.3	
NW	4.9	12.9	3.1	.1	.0		20.9	10.9	24.5	20.2	20.0	18.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.1						9.1	.0	6.6	7.6	11.8	10.3	
TOT OBS	693	1165	347	22	0	2227		10.3	373	327	370	333	
TOT PCT	31.1	52.3	15.6	1.0	.0		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

AREA 0039 NEWPORT
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	6.6	3.7	42.3	40.5	6.4	.5	.0	11.3	100.0	575
0600Z	7.6	3.0	47.4	36.2	5.7	.0	.0	10.5	100.0	527
1200Z	11.8	4.9	43.3	34.9	4.9	.2	.0	9.8	100.0	570
1800Z	10.5	3.2	48.6	33.9	3.8	.0	.0	9.8	100.0	555
TOT	203	83	1010	811	116	4	0	10.3		2227
PCT	9.1	3.7	45.4	36.4	5.2	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	9.3	5.9	12.4	12.7		5.1
NE	.7	.2	.3	.4		4.1
E	.2	.1	.2	.3		3.4
SE	.0	.1	.4	.8		6.9
S	.2	.5	1.7	6.0		7.2
SW	.5	1.0	2.5	4.6		6.6
W	.9	.7	3.0	4.4		6.4
NW	2.3	2.1	6.5	8.8		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.2	3.4	5.0		6.2
TOT OBS	203	207	531	759	1794	5.8
TOT PCT	13.0	11.8	30.3	42.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.3	1.2	2.6	7.0	6.4	1.4	.2	.6	.4	19.3	
NE	.0	.0	.1	.0	.2	.2	.0	.0	.0	.1	1.0	
E	.1	.0	.2	.1	.1	.1	.0	.0	.0	.0	.3	
SE	.0	.1	.2	.0	.5	.2	.1	.0	.0	.0	.4	
S	.8	.2	.8	1.3	1.7	1.3	.3	.1	.1	.2	1.7	
SW	.5	.1	.5	1.0	1.9	1.3	.5	.0	.1	.1	2.4	
W	.3	.2	.4	1.2	2.3	1.8	.1	.1	.1	.0	2.5	
NW	.2	.1	.6	2.9	5.0	3.6	.9	.2	.3	.1	6.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.1	.3	.9	1.3	2.5	.8	.0	.3	.1	3.9	
TOT OBS	54	18	72	174	349	308	72	9	24	17	697	
TOT PCT	3.1	1.0	4.1	9.9	19.9	17.6	4.1	.5	1.4	1.0	37.5	1754 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >5000	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
= OR >3500	3.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0
= OR >2000	15.5	23.8	24.3	24.7	24.7	24.7	24.7	24.7
= OR >1000	28.4	41.7	44.0	44.4	44.5	44.5	44.5	44.5
= OR >600	33.9	50.5	53.4	54.1	54.2	54.3	54.3	54.3
= OR >300	35.3	53.4	57.3	58.1	58.2	58.3	58.3	58.3
= OR >150	35.3	54.0	58.0	59.1	59.2	59.2	59.3	59.3
= OR >0	35.4	54.5	59.1	60.4	61.1	61.6	62.3	62.3
TOTAL	631	971	1053	1077	1090	1098	1110	1111

TOTAL NUMBER OF OBS: 1783

PCT FREQ NM <5/8: 37.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
7.6	8.2	10.3	7.6	6.0	6.3	8.4	10.0	39.2	1849

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.0	.0	.0	.1	.2	.1	.1	.0	.2	1.1	
	TOT %	.5	.0	.0	.0	.1	.2	.1	.1	.0	.2	1.1	
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.4	.0	.0	.0	.1	.1	.1	.1	.0	.0	.9	
	TOT %	.4	.0	.0	.0	.2	.2	.1	.1	.0	.0	1.3	
1<2	PCP	.0	.0	.0	.0	.3	.2	.1	.1	.0	.1	1.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.0	.0	.3	.2	.1	.1	.0	.1	1.2	
2<5	PCP	.3	.0	.0	.1	.9	.3	.2	.2	.0	.2	2.2	
	NO PCP	1.0	.1	.0	.0	.2	.2	.2	.9	.0	.0	2.8	
	TOT %	1.3	.1	.1	.1	1.1	.5	.4	1.1	.0	.2	5.0	
5<10	PCP	.5	.0	.0	.2	1.0	.6	.4	.5	.0	.6	3.7	
	NO PCP	9.1	.4	.1	.3	1.7	2.5	2.0	5.1	.0	2.8	24.1	
	TOT %	9.6	.4	.1	.5	2.7	3.1	2.4	5.6	.0	3.4	27.7	
10+	PCP	.0	.0	.0	.1	.2	.3	.3	.3	.0	.0	1.3	
	NO PCP	27.5	1.0	.4	.5	4.3	4.5	5.2	13.6	.0	5.4	62.3	
	TOT %	27.5	1.0	.4	.6	4.5	4.8	5.5	13.9	.0	5.4	63.6	
TOT OBS													2041
TOT PCT													99.5 1.5 .6 1.2 8.9 9.1 8.7 21.1 .0 9.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.5	
	11-21	.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	.0	.0	.0	.0	.2	.1	.1	.0	.2	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.1	.0	.1	.2	.0	.0	.5	
	11-21	.4	.0	.0	.0	.1	.1	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.0	.2	.2	.2	.2	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.2	.0	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.3	
	TOT %	.2	.0	.0	.0	.4	.3	.1	.2	.0	.1	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.3	.3	.5	
	4-10	.5	.1	.1	.0	.2	.2	.3	.4	.0	.0	1.8	
	11-21	.7	.0	.0	.1	.6	.3	.2	.6	.0	.0	2.3	
	22+	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.4	
	TOT %	1.3	.1	.1	.1	1.1	.5	.5	1.1	.0	.3	5.1	
5<10	0-3	.1	.0	.0	.0	.1	.2	.1	.0	3.2	3.7		
	4-10	3.5	.3	.0	.2	1.1	2.1	1.3	2.9	.0		11.4	
	11-21	4.7	.1	.0	.2	1.5	.9	.7	2.2	.0		10.3	
	22+	.9	.0	.0	.1	.2	.0	.0	.3	.0		1.4	
	TOT %	9.2	.4	.1	.5	2.8	3.1	2.3	5.5	.0	3.2	27.0	
10+	0-3	.8	.1	.0	.2	.5	.2	.4	.5	.0	5.4	8.1	
	4-10	12.0	.7	.1	.3	2.8	3.0	3.8	7.8	.0		30.4	
	11-21	12.5	.2	.2	.2	1.3	1.7	1.3	5.2	.0		22.5	
	22+	2.3	.0	.0	.0	.3	.0	.0	.5	.0		3.2	
	TOT %	27.6	1.0	.4	.7	4.8	4.9	5.5	13.9	.0	5.4	64.2	
TOT OBS													2141
TOT PCT													99.2 1.5 .6 1.4 9.3 9.2 8.7 20.9 .0 9.3 100.0

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PERIOD: (PRIMARY) 1959-1973
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TABLE 10

AREA 0039 NEWPORT
44.7N 124.9WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	3.0	.4	1.9	7.0	16.3	15.3	3.4	.6	1.9	1.5	51.4	48.6	471
06009	2.7	1.8	3.4	8.3	15.7	16.6	4.7	.9	1.1	1.3	58.7	41.3	445
12015	2.7	.7	4.5	13.7	24.0	22.3	4.7	.2	.9	.7	74.6	25.4	445
18021	3.5	1.1	4.2	9.7	22.3	15.5	3.1	.2	1.5	.7	61.9	38.1	452
TOT	34	18	72	173	355	316	72	9	25	19	1115	698	1813
PCT	3.0	1.0	4.0	9.7	19.6	17.4	4.0	.5	1.4	1.0	61.5	39.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.0	1.2	1.9	5.0	21.7	69.0	575
06009	1.0	1.0	1.5	4.9	32.5	59.1	326
12015	1.3	1.4	1.1	5.9	32.4	58.0	359
18021	1.5	1.1	1.1	4.8	24.1	67.3	339
TOT	26	26	31	114	607	1395	2199
PCT	1.2	1.2	1.4	5.2	27.6	63.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.0	5.6	16.9	36.4	48.6	461
06009	2.7	10.0	21.3	39.0	39.7	441
12015	2.8	8.5	26.4	49.4	24.1	435
18021	3.6	9.2	21.3	42.4	38.3	446
TOT	34	148	382	744	657	1783
PCT	3.0	8.3	21.4	41.7	36.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
69/69	.0	.0	.0	.1	.6	.8	.5	.2	24	2.2
68/64	.0	.0	.0	.7	3.7	7.9	6.2	2.1	227	20.6
59/59	.0	.0	.0	.4	5.4	17.0	21.3	14.1	641	58.2
50/50	.0	.0	.0	.2	1.3	2.8	6.7	5.6	207	18.8
49/49	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	0	0	15	124	313	405	243	1102	100.0
PCT	.0	.0	.0	1.4	11.3	28.6	36.8	22.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.9	.0	.0	.0	.0	.2	.2	.9	.0	.1
7.3	.3	.1	.1	2.0	2.2	2.6	5.4	.0	.6
21.9	.5	.5	1.1	5.6	6.9	3.4	15.8	.0	2.5
6.3	.2	.3	.5	2.4	2.0	2.6	3.6	.0	.9
.0	.0	.0	.0	.0	.1	.0	.1	.0	.0
36.3	1.0	1.0	1.7	9.9	9.4	10.8	25.6	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	67	64	59	53	50	45	58.7	592
06009	66	63	61	56	52	50	49	56.5	334
12015	63	63	60	56	52	50	46	55.8	577
18021	72	67	64	58	53	50	46	58.0	559
TOT	72	66	63	57	52	50	45	57.3	2262

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	15.8	34.4	32.0	15.8	80	291
06009	.0	.4	6.1	20.2	40.3	33.1	85	263
12015	.0	.4	5.1	27.4	42.6	24.3	84	277
18021	.0	2.5	18.7	31.0	31.3	16.5	79	284
TOT	0	15	129	317	406	248	82	1115

PERIOD: (PRIMARY) 1959-1973
(OVER-ALL) 1975-1973

JUNE

AREA 0039 NEWPORT
44.7N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.1	.1	.1	.2	7	.0	.4
9/10	.0	.0	.0	.3	.3	.0	.0	11	.0	.6
7/8	.0	.0	.2	.7	1.2	.3	.1	44	.0	2.3
6	.0	.0	.4	.3	1.3	.2	.0	41	.1	2.1
5	.0	.1	.3	.8	1.4	.5	.0	63	.1	3.3
4	.0	.1	.8	1.8	1.9	.2	.0	90	.3	4.5
3	.0	.1	.8	3.9	1.7	.3	.0	129	.2	6.6
2	.0	.3	1.6	5.3	1.6	.1	.0	169	.3	8.6
1	.0	.3	3.5	6.3	1.3	.0	.0	220	.3	11.3
0	.0	.6	6.6	5.6	1.5	.1	.0	274	.4	14.1
-1	.0	.3	7.0	6.0	.7	.0	.0	265	.4	13.5
-2	.0	.4	4.3	4.5	.2	.0	.0	180	.7	8.7
-3	.0	.4	4.3	2.3	.2	.0	.0	139	.2	7.1
-4	.1	.4	3.2	1.4	.1	.0	.0	97	.3	4.8
-5	.0	1.3	2.1	.7	.0	.0	.0	77	.1	4.0
-6	.0	.3	.9	.2	.0	.0	.0	26	.1	1.3
-7/-8	.3	1.4	.8	.2	.0	.0	.0	51	.1	2.6
-9/-10	.1	.4	.0	.1	.0	.0	.0	11	.0	.6
-11/-13	.1	.1	.1	.1	.0	.0	.0	4	.0	.2
TOTAL	9		709		258		4	1899	62	1837
PCT	.5	6.1	37.3	40.7	13.6	1.6	.2	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.3	4.6	.3	.0	.0	.0	5.3			.1	.6	.0	.0	.0	.0	.6			
1-2	.3	7.9	3.9	.0	.0	.0	12.1			.0	.3	.2	.0	.0	.0	.5			
3-4	.1	4.6	8.2	.4	.0	.0	13.3			.0	.3	.8	.0	.0	.0	.4			
5-6	.0	1.8	5.2	1.0	.0	.0	8.0			.0	.0	.1	.0	.0	.0	.1			
7	.0	.3	1.5	.8	.0	.0	2.5			.0	.0	.0	.0	.0	.0	.0			
8-9	.0	.1	.1	.4	.0	.0	.4			.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.1	.3	.0	.0	.0	.4			.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.1	.0	.0	.0	.1			.0	.0	.1	.0	.0	.0	.1			
13-16	.0	.0	.0	.1	.0	.0	.1			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.8	19.3	19.5	2.6	.0	.0	42.2			.1	1.2	.4	.0	.0	.0	1.7			

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.0	.1	.0	.0	.0	.0	.1			.1	.1	.0	.0	.0	.0	.1			
1-2	.0	.1	.1	.0	.0	.0	.2			.0	.4	.0	.0	.0	.0	.5			
3-4	.0	.0	.1	.0	.0	.0	.1			.0	.1	.3	.0	.0	.0	.3			
5-6	.0	.0	.1	.0	.0	.0	.1			.0	.0	.0	.0	.0	.0	.0			
7	.0	.0	.0	.1	.0	.0	.1			.0	.0	.1	.0	.0	.0	.1			
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.1	.0	.0	.0	.1			
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.1	.1	.0	.0	.2			
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	.3	.2	.1	.0	.0	.3			.1	.6	.6	.1	.0	.0	1.4			

PERIOD: (OVER-ALL) 1963-1973

JUNE

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44.7N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0		.8	.1	1.2	.1	.0	.0	.0		1.4
1-2	.2	1.8	.9	.0	.0	.0		3.0	.0	2.0	1.0	.0	.0	.0		3.0
3-4	.0	.4	.9	.0	.0	.0		1.3	.0	.8	1.2	.0	.0	.0		1.8
5-6	.0	.3	.9	.1	.0	.0		1.3	.0	.5	1.0	.0	.0	.0		1.5
7	.0	.1	.5	.1	.0	.0		.7	.0	.1	.2	.1	.0	.0		.4
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	3.5	3.2	.5	.0	.0		7.5	.1	4.4	3.5	.1	.0	.0		8.0

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.2	.1	.0	.0	.0		1.6	.2	2.2	.2	.0	.0	.0		2.6
1-2	.1	2.4	.7	.0	.0	.0		3.2	.0	3.7	2.8	.0	.0	.0		8.5
3-4	.0	.8	1.2	.1	.0	.0		1.9	.1	1.9	3.2	.3	.0	.0		5.4
5-6	.0	.2	.1	.0	.0	.0		.3	.0	.5	1.1	.3	.0	.0		1.9
7	.0	.0	.1	.0	.0	.0		.1	.0	.2	.6	.1	.0	.0		.3
8-9	.0	.1	.0	.0	.0	.0		.1	.0	.1	.2	.0	.0	.0		.3
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.1	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	4.3	2.3	.1	.0	.0		7.2	.3	10.7	8.1	.7	.0	.0		19.8 88.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.8	10.8	.7	.0	.0	.0	24.4	
1-2	.8	20.8	9.5	.0	.0	.0	31.1	
3-4	.1	8.5	15.0	.7	.0	.0	24.4	
5-6	.0	3.3	8.4	1.4	.0	.0	13.0	
7	.0	.6	2.9	1.2	.0	.0	4.7	
8-9	.0	.3	.4	.5	.0	.0	1.1	
10-11	.0	.1	.6	.3	.0	.0	.9	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.8	44.4	37.6	4.2	.0	.0	100.0	1399

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.9	17.9	8.2	3.4	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	756	4
6-7	.1	2.5	7.3	7.6	4.0	1.3	.8	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	435	5
8-9	.0	1.4	5.1	6.4	3.6	1.8	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	364	5
10-11	.0	1.6	1.6	1.4	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
12-13	.0	.0	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	2.6	1.0	2.3	1.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	3
TOTAL	66	300	638	454	224	80	48	8	13	0	0	0	0	0	0	0	0	0	0	1891	4
PCT	3.6	16.4	34.8	24.8	12.2	4.4	2.6	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1888-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.1	.1	1.6	.0	.0	.0	.0	1.8	1.1	.0	4.5	.4	1.7	.1	90.4
NE	.0	.0	4.9	.0	.0	.0	.0	4.9	1.0	.0	3.9	.0	7.8	.0	82.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.9	.0	13.4	.0	66.7
SE	2.9	5.8	5.8	.0	.0	.0	.0	14.5	5.8	.0	7.2	.0	5.8	.0	66.7
S	5.4	5.4	7.6	.0	.0	.0	.0	16.3	3.1	.0	15.1	.8	.0	.0	64.7
SW	1.2	4.1	3.2	.0	.0	.0	.0	7.8	2.9	.0	7.8	.0	2.3	.0	79.1
W	.0	3.6	.0	.0	.0	.0	.0	3.6	5.3	1.8	4.5	2.4	.0	.0	82.5
NW	.4	.9	2.9	.0	.0	.0	.0	4.2	1.7	.2	3.9	.1	.3	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.0	1.3	.0	.0	.0	.0	2.5	.0	.0	13.9	1.3	6.3	.0	75.9
TOT PCT	.8	1.2	2.5	.0	.0	.0	.0	4.3	1.7	.1	6.2	.5	1.7	.1	85.4
TOT OBS:	1380														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.8	1.3	1.3	.0	.0	.0	.0	3.2	1.1	.0	5.1	.8	1.1	.3	88.4
0600	.6	2.0	2.8	.0	.0	.0	.0	4.8	2.3	.3	6.3	.3	1.7	.0	84.4
1200	.3	1.0	3.9	.0	.0	.0	.0	5.2	1.6	.3	5.2	.3	2.3	.0	85.0
1800	1.3	.5	2.1	.0	.0	.0	.0	3.8	1.8	.0	7.9	.5	2.3	.0	89.6
TOT PCT	.8	1.2	2.5	.0	.0	.0	.0	4.2	1.7	.1	6.2	.5	1.8	.1	85.4
TOT OBS:	1421														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	16.3	26.7	4.6	.3	.0		49.5	13.5		48.2	34.9	32.5	55.6	32.9	44.6	30.0	40.5
NE	.8	1.2	.7	.1	.0	.0		2.0	10.7		1.1	4.8	1.3	1.0	2.4	5.0	2.3	2.4
E	.1	.5	.1	.0	.0	.0		.7	6.4		.0	.0	.3	.0	1.3	2.1	1.2	.6
SE	.8	.8	.2	.0	.0	.0		1.2	8.5		.1	.0	.9	.0	2.9	4.3	1.0	.6
S	.8	4.2	3.2	.7	.0	.0		8.8	11.1		4.2	10.3	8.0	8.2	5.0	10.0	9.9	17.6
SW	.7	3.3	1.7	.2	.0	.0		5.9	9.6		5.5	10.3	7.0	6.1	3.4	2.9	6.6	8.6
W	.6	4.3	1.4	.2	.0	.0		6.3	8.6		8.0	4.8	5.3	5.1	7.4	8.6	5.1	8.3
NW	.9	10.5	7.7	.5	.1	.0		19.7	10.4		21.4	34.9	19.9	21.9	18.2	16.8	17.4	16.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7							5.7	.0		6.5	.0	4.8	2.0	6.6	5.7	6.5	4.8
TOT OBS	163	641	647	98	6	0	1555		11.2		392	63	311	49	289	70	337	84
TOT PCT	10.5	41.2	41.6	6.3	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	8.3	25.8	14.4	.9	.0		49.5	13.5	48.2	34.9	32.5	55.6	32.9
NE	.8	1.1	.3	.0	.0		2.0	10.7	1.1	4.8	1.3	1.0	2.4
E	.4	.3	.0	.0	.0		.7	6.4	.0	.0	.3	.0	1.3
SE	.6	.4	.2	.0	.0		1.2	8.5	.1	.0	.9	.0	2.9
S	2.5	4.7	1.4	.2	.0		8.8	11.1	4.2	10.3	8.0	8.2	5.0
SW	2.1	3.0	.8	.1	.0		5.9	9.6	5.5	10.3	7.0	6.1	3.4
W	2.8	3.2	.5	.1	.0		6.3	8.6	8.0	4.8	5.3	5.1	7.4
NW	5.8	11.3	2.6	.1	.0		19.7	10.4	21.4	34.9	19.9	21.9	18.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	6.5	.0	4.8	2.0	6.6
TOT OBS	446	775	313	21	0	1555		11.2	392	63	311	49	289
TOT PCT	28.7	49.8	20.1	1.4	.0		100.0		100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1988-1973

TABLE 4

AREA 0039 NEWPORT
44.8N 124.9W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.5	3.1	37.8	44.1	8.7	.7	.0	12.0	100.0	415
0600	4.4	4.7	41.7	42.5	6.4	.3	.0	11.5	100.0	360
1200	6.4	5.0	45.1	39.8	3.3	.3	.0	10.2	100.0	359
1800	6.2	6.4	40.9	39.9	6.4	.2	.0	10.9	100.0	421
TOT	88	75	641	647	98	6	0			1555
PCT	5.7	4.8	41.2	41.6	6.3	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	17.0	6.3	13.2	15.4		4.6
NE	.5	.2	.4	.7		5.1
E	.1	.0	.2	.4		6.7
SE	.1	.1	.3	.8		6.8
S	.3	.2	1.9	4.9		7.2
SW	.3	.3	1.4	3.7		6.9
W	.4	.8	2.0	3.0		6.5
NW	4.8	1.8	5.6	5.9		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.5	.6	1.2	3.5		5.7
TOT OBS	283	117	295	430	1125	5.3
TOT PCT	25.2	10.4	26.2	38.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
1.2	.6	1.0	5.0	8.7	6.7	1.8	.1	.2	.0	26.5	
.1	.0	.0	.2	.6	.2	.0	.0	.0	.0	.9	
.2	.0	.1	.0	.2	.0	.1	.0	.0	.0	.1	
.0	.0	.0	.4	.2	.2	.0	.1	.0	.0	.3	
1.2	.2	.4	.6	1.3	1.3	.7	.0	.4	.0	1.2	
.5	.1	.7	1.0	.8	.9	.3	.0	.0	.0	1.4	
.0	.1	.2	1.1	1.2	1.7	.3	.0	.0	.0	1.5	
.4	.2	.7	2.1	3.4	3.0	.5	.0	.1	.0	7.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.6	.1	.4	.2	.9	.9	1.0	.1	.3	.2	2.3	
4.8	13	40	118	197	167	54	2	11	2	473	
4.3	1.2	3.6	10.5	17.5	14.8	4.8	.2	1.0	.2	42.0	1125
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.6	.9	1.1	1.1	1.1	1.1	1.1	1.1
>5000	.7	1.1	1.2	1.3	1.3	1.3	1.3	1.3
>5500	3.4	5.5	5.8	5.9	5.9	6.1	6.1	6.1
>2000	13.6	19.7	20.6	20.7	20.7	20.8	20.8	20.8
>1000	24.8	36.0	38.1	38.3	38.3	38.6	38.6	38.6
>600	32.0	46.0	48.4	48.6	48.7	49.0	49.0	49.0
>300	33.5	49.3	51.6	52.2	52.3	52.6	52.6	52.6
>150	33.8	50.2	52.9	53.3	53.5	53.7	53.7	53.7
>0	33.8	50.4	53.2	53.7	54.4	56.2	57.6	57.8
TOTAL	384	573	605	611	618	639	655	657

TOTAL NUMBER OF OBS: 1137

PCT FREQ NM <5/8: 42.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.1	8.4	9.2	6.4	4.8	5.4	6.7	11.6	30.8	3.7	1203

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1889-1973

JULY

AREA 0039 NEWPORT
44.8N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.1	.0	.1	.8	.3	.1	.4	.0	.5	.3	.3	
	TOT %	1.1	.0	.1	.8	.3	.1	.4	.0	.5	.3	.3	
1/2<1	PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.0	.0	.2	.1	.1	.1	.0	.0	.7	
	TOT %	.2	.1	.0	.0	.3	.1	.1	.1	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.3	
	NO PCP	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	TOT %	.2	.0	.0	.0	.3	.0	.0	.1	.0	.1	.6	
2<5	PCP	.1	.0	.0	.1	.2	.1	.1	.3	.0	.1	.9	
	NO PCP	1.1	.1	.0	.1	.5	.2	.2	.3	.0	.3	3.1	
	TOT %	1.3	.1	.0	.2	.7	.3	.3	.5	.0	.6	3.9	
5<10	PCP	.7	.1	.0	.0	.4	.2	.1	.3	.0	.0	1.7	
	NO PCP	10.8	.4	.3	.4	1.5	2.0	1.3	4.7	.0	1.1	22.6	
	TOT %	11.4	.5	.3	.4	1.9	2.2	1.4	4.9	.0	1.1	24.3	
10+	PCP	.1	.0	.0	.1	.6	.2	.1	.3	.0	.0	1.3	
	NO PCP	35.8	1.2	.2	.5	4.2	3.1	4.2	13.0	.0	3.5	65.8	
	TOT %	35.9	1.2	.2	.6	4.7	3.4	4.3	13.3	.0	3.5	67.1	
TOT OBS													1376
TOT PCT													50.1 1.9 .7 1.3 8.7 8.2 6.1 19.4 .0 5.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.5	.8	
	4-10	.6	.0	.1	.0	.6	.3	.1	.3	.0	.0	1.9	
	11-21	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.5	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	1.1	.0	.1	.0	.8	.3	.1	.4	.0	.5	3.3	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.3	
	11-21	.3	.1	.0	.0	.1	.1	.0	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.1	.0	.0	.3	.1	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.0	.0	.3	.0	.0	.1	.0	.1	.6	
2<5	0-3	.1	.0	.0	.0	.1	.1	.0	.0	.0	.5	.8	
	4-10	.7	.0	.0	.2	.3	.1	.1	.3	.0	.0	1.8	
	11-21	.5	.1	.0	.0	.4	.1	.1	.2	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	1.3	.1	.0	.2	.8	.2	.3	.6	.0	.5	4.0	
5<10	0-3	.3	.0	.0	.1	.2	.2	.0	.2	.0	1.0	2.0	
	4-10	3.0	.3	.3	.3	.5	.8	.6	2.2	.0	.0	8.1	
	11-21	6.7	.1	.0	.0	1.0	1.0	.5	2.0	.0	.0	11.4	
	22+	1.1	.1	.0	.0	.2	.1	.1	.2	.0	.0	1.8	
	TOT %	11.1	.5	.3	.4	1.8	2.0	1.3	4.7	.0	1.0	23.2	
10+	0-3	.8	.0	.1	.0	.3	.5	.5	.5	.0	3.6	6.4	
	4-10	11.6	.9	.0	.4	2.5	2.0	3.3	7.2	.0	.0	28.0	
	11-21	19.4	.4	.0	.2	1.7	.7	.9	5.5	.0	.0	28.9	
	22+	3.9	.0	.0	.0	.2	.2	.0	.4	.0	.0	4.7	
	TOT %	35.8	1.3	.2	.6	4.8	3.4	4.7	13.6	.0	3.6	68.0	
TOT OBS													1471
TOT PCT													49.8 2.0 .7 1.2 8.7 6.0 6.4 19.5 .0 5.8 100.0

JULY

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1888-1973

TABLE 10

AREA 0039 NEWPORT
44.8N 124.9WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	2.7	1.3	2.0	6.3	17.7	11.0	6.3	.0	.7	.0	48.0	52.0	300
06009	4.3	1.0	3.1	10.3	15.4	14.0	4.1	.3	.3	.3	53.4	46.6	292
12015	4.5	.8	4.1	11.5	16.0	18.9	5.8	.4	1.6	.4	64.2	35.8	243
18021	4.8	1.2	4.8	12.7	19.9	15.1	2.7	.0	1.2	.0	62.3	37.7	332
TOT	48	13	41	119	203	170	94	2	11	2	663	504	1167
PCT	4.1	1.1	3.5	10.2	17.4	14.6	4.6	.2	.9	.2	56.8	43.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	3.2	1.2	.9	3.0	21.6	70.5	409
06009	3.3	.8	.9	3.8	24.7	66.8	364
12015	3.2	.6	1.2	5.3	28.6	61.1	339
18021	4.2	.7	.9	4.2	21.7	68.7	406
TOT	53	13	10	61	362	1013	1512
PCT	3.5	.9	.7	4.0	23.9	67.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	2.7	6.8	16.1	33.9	50.0	292
06009	4.6	8.8	22.2	32.7	43.1	284
12015	4.3	9.8	24.8	41.0	34.2	234
18021	4.6	11.6	28.4	37.0	34.6	327
TOT	46	106	261	409	467	1137
PCT	4.0	9.3	23.0	36.0	41.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	.0	.1	.0	3	.3
65/69	.0	.0	.1	.7	2.5	1.9	3.0	.7	80	8.8
60/64	.0	.0	.1	.6	4.3	13.7	21.1	8.3	435	48.1
55/59	.0	.0	.0	.1	.8	6.7	16.3	14.6	350	38.7
50/54	.0	.0	.0	.0	.0	.1	1.8	2.0	35	3.9
TOTAL	0	0	2	13	70	203	385	231	904	100.0
PCT	.0	.0	.2	1.4	7.7	22.5	42.6	25.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.2	.0	.0	.0	.0	.0	.0	.0	.0	.1
3.2	.1	.1	.0	1.3	.6	1.0	2.4	.0	.1
23.5	1.0	.2	.7	4.4	4.2	2.8	10.3	.0	1.2
20.8	1.3	.3	.3	2.7	2.1	2.2	7.8	.0	1.2
2.1	.1	.1	.1	.2	.0	.3	.7	.0	.3
49.9	2.4	.7	1.1	8.6	8.9	6.1	21.3	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	69	67	61	55	50	50	61.3	418
06009	70	68	63	59	54	52	50	59.0	371
12015	69	64	63	58	54	52	50	58.3	367
18021	75	69	66	61	55	51	50	60.7	424
TOT	75	69	66	60	54	52	50	59.9	1580

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	14.8	26.7	39.5	16.9	80	243		
06009	.0	.4	1.7	18.9	44.1	34.9	87	238		
12015	.0	1.6	7.4	18.3	42.1	32.6	85	190		
18021	.0	2.5	6.6	28.2	43.9	20.9	82	244		
TOT	0	15	70	205	388	237	83	915		

JULY

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1968-1973

TABLE 17

AREA 0039 NEWPORT
44.8N 124.9WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
14/16	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.1	.3	.2	.2	.1	13	.1	.9
9/10	.0	.1	.4	.8	.9	.2	.1	31	.2	2.3
7/8	.0	.1	1.0	1.1	1.7	.4	.0	55	.2	4.0
6	.0	.2	.9	1.1	.9	.1	.0	42	.1	3.1
5	.0	.8	1.2	2.2	.5	.2	.0	63	.2	4.8
4	.2	.6	2.4	2.6	.8	.2	.0	88	.2	6.5
3	.1	.7	2.6	2.7	.9	.0	.0	91	.5	6.4
2	.1	1.2	3.9	3.6	.4	.0	.0	121	.5	8.7
1	.1	1.6	5.4	4.7	.8	.0	.0	165	1.1	11.4
0	.2	1.4	5.6	5.2	.2	.0	.0	166	.7	11.9
-1	.0	1.4	6.6	3.7	.2	.0	.0	156	.8	11.0
-2	.1	.8	6.2	1.7	.0	.0	.0	115	.4	8.4
-3	.2	.9	4.6	.8	.0	.0	.0	84	.6	5.8
-4	.1	1.1	2.4	.4	.0	.0	.0	52	.2	3.7
-5	.3	.5	1.6	.2	.1	.0	.0	35	.1	2.6
-6	.0	.1	.7	.1	.0	.0	.0	11	.1	.8
-7/-8	.8	.1	.2	.1	.0	.0	.0	14	.0	1.1
-9/-10	.5	.0	.0	.1	.0	.0	.0	8	.0	.6
-11/-13	.1	.0	.2	.0	.0	.0	.0	3	.0	.2
TOTAL	33	603	411	100	17	2		1317	75	1242
PCT	2.5	11.5	45.8	31.2	7.6	1.3	.2	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1968-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.5	5.1	.1	.0	.0	.0	6.7	.0	.4	.0	.0	.0	.0	.4
1-2	.2	8.8	7.0	.0	.0	.0	16.0	.0	.4	.5	.0	.0	.0	.9
3-4	.0	3.3	10.7	.8	.0	.0	15.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.5	8.4	1.5	.0	.0	10.4	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	2.1	1.1	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.3	.6	.7	.4	.0	2.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	18.3	29.4	4.4	.4	.0	54.2	.8	.8	.7	.0	.0	.0	1.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.0	.0	.0	.0	.7	.0	1.1	.2	.0	.0	.0	1.2

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0039 NEWPORT
44.8N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	1.2	.0	.0	.0	.0		2.0	.2	.9	.1	.0	.0	.0		1.3
1-2	.0	1.2	.6	.0	.0	.0		1.8	.0	1.7	.5	.0	.0	.0		2.2
3-4	.0	1.0	.7	.0	.0	.0		1.6	.0	.5	.4	.1	.0	.0		1.0
5-6	.0	.2	.5	.1	.0	.0		.9	.0	.2	.1	.0	.0	.0		.2
7	.0	.0	.0	.1	.0	.0		.1	.0	.1	.2	.0	.0	.0		.3
8-9	.0	.1	.1	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	3.8	1.9	.3	.0	.0		6.7	.2	3.4	1.2	.3	.0	.0		5.1

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	1.2	.0	.0	.0	.0		1.4	.3	2.5	.0	.0	.0	.0		2.9
1-2	.0	1.5	.4	.0	.0	.0		1.9	.0	4.8	2.1	.0	.0	.0		8.9
3-4	.0	.9	.5	.2	.0	.0		1.6	.0	1.5	2.9	.0	.0	.0		4.4
5-6	.0	.1	.2	.0	.0	.0		.4	.0	.2	1.5	.1	.1	.0		1.9
7	.0	.0	.2	.0	.0	.0		.2	.0	.0	.3	.2	.0	.0		.5
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.1	.0	.0		.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0		.2
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	3.8	1.2	.4	.0	.0		3.5	.3	9.1	7.1	.3	.1	.0		17.0 92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	12.0	.2	.0	.0	.0	23.6	
1-2	.2	19.2	11.0	.0	.0	.0	30.5	
3-4	.0	7.4	15.1	1.2	.0	.0	23.7	
5-6	.0	1.2	11.0	1.7	.1	.0	14.0	
7	.0	.1	2.8	1.3	.0	.0	4.2	
8-9	.0	.3	.8	.8	.4	.0	2.3	
10-11	.0	.0	.6	.1	.0	.0	.7	
12	.0	.0	.1	.3	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	40.4	41.8	5.7	.5	.0	100.0	826

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	12.8	16.7	9.6	2.8	1.1	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	504	4
6-7	.0	2.9	8.9	8.9	4.2	1.5	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319	5
8-9	.0	1.4	5.4	5.0	2.6	1.8	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	5
10-11	.0	.4	.3	.9	.3	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
12-13	.0	.0	.2	.2	.1	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.6	2.3	1.1	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	3
TOTAL	25	228	371	283	122	64	29	10	.6	2	0	0	0	0	0	0	0	0	0	1140	4
PCT	2.2	20.0	32.5	24.8	10.7	5.6	2.5	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1980-1973

AUGUST

AREA 0039 NEWPORT
44.8N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.4	2.5	.0	.0	.0	.0	2.9	.8	.2	3.3	.4	2.2	.0	90.0
NE	.0	.0	2.0	.0	.0	.0	.0	2.0	2.0	.0	1.0	2.0	.0	.0	92.9
E	.0	.0	7.8	.0	.0	.0	.0	7.8	.0	.0	11.8	.0	.0	.0	80.4
SE	.0	8.4	8.3	.0	.0	.0	.0	13.7	.0	.0	9.5	.0	.0	.0	76.8
S	7.3	6.0	7.3	.0	.0	.0	.0	19.4	7.8	1.0	9.3	.0	.0	.0	62.4
SW	3.9	.4	5.8	.0	.0	.0	.0	10.1	7.8	.4	8.6	.0	3.9	.0	69.3
W	2.4	3.3	3.9	.0	.0	.0	.0	9.5	6.8	.9	4.2	.0	1.8	.0	76.9
NW	1.0	.1	2.7	.0	.0	.0	.0	3.9	2.5	.0	7.9	.4	2.2	.0	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.6	.0	.0	.0	.0	3.6	4.8	.0	22.6	.0	.0	.0	69.0
TOT PCT	1.1	1.1	3.4	.0	.0	.0	.0	5.5	2.8	.2	6.6	.3	1.8	.0	82.8
TOT OBS:	1221														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.0	1.3	3.9	.0	.0	.0	.0	5.8	1.0	.0	6.8	.0	2.3	.0	84.1
06009	1.1	1.4	3.9	.0	.0	.0	.0	6.4	2.5	.4	5.7	.0	1.8	.0	83.4
12015	1.6	1.0	2.0	.0	.0	.0	.0	4.6	3.0	.7	7.2	.3	2.3	.0	82.0
18021	.9	.6	3.6	.0	.0	.0	.0	5.0	4.7	.0	6.2	.9	.9	.0	82.2
TOT PCT	1.1	1.1	3.3	.0	.0	.0	.0	5.4	2.8	.2	6.5	.3	1.8	.0	82.9
TOT OBS:	1233														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.2	16.1	24.2	4.4	.0	.0		45.9	13.2	49.8	53.6	49.5	51.4	42.1	47.2	39.8	46.3	
NE	.2	2.3	1.1	.1	.0	.0		3.7	9.5	2.2	1.0	2.1	4.8	3.5	3.4	6.4	6.7	
E	.3	.6	.1	.0	.0	.0		1.0	6.5	.2	.0	.0	1.4	1.5	3.1	1.2	2.1	
SE	.4	1.7	.9	.0	.0	.0		2.6	7.8	1.2	2.1	2.7	2.4	1.7	5.0	3.5	5.2	
S	.6	4.6	2.3	.8	.0	.0		8.3	10.7	7.6	6.3	6.4	1.9	9.4	3.8	12.4	8.3	
SW	.3	2.8	1.7	.1	.0	.0		4.8	9.6	5.2	3.1	7.6	2.9	3.8	3.1	4.8	3.7	
W	.6	4.3	1.8	.0	.0	.0		6.7	8.8	6.3	2.1	6.5	6.7	7.7	6.3	6.8	7.9	
NW	1.5	11.6	5.7	.6	.0	.0		19.5	9.4	21.4	29.7	19.2	21.2	19.9	20.6	16.0	15.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.4							7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	174	612	917	84	0	0	1387		10.5	304	48	230	52	277	80	284	82	
TOT PCT	12.5	44.1	37.3	6.1	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	7.3	25.2	12.8	.4	.0			45.9	13.2	50.4	49.8	49.3	41.2		
NE	1.3	1.9	.6	.0	.0			3.7	9.5	2.1	2.5	3.5	6.4		
E	.5	.4	.1	.0	.0			1.0	6.5	.1	.2	1.9	1.4		
SE	1.1	1.4	.1	.0	.0			2.6	7.8	1.3	2.6	2.5	3.9		
S	2.6	4.2	1.3	.2	.0			8.3	10.7	7.4	5.6	6.1	11.6		
SW	1.6	2.8	.5	.0	.0			4.8	9.6	4.9	6.8	3.5	4.5		
W	2.7	3.7	.3	.0	.0			6.7	8.8	5.7	6.9	7.4	7.0		
NW	6.8	11.0	1.7	.1	.0			19.5	9.4	22.5	19.3	20.1	16.0		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	7.4							7.4	.0	5.7	6.0	9.8	8.0		
TOT OBS	437	700	240	10	0	1387			10.5	352	302	357	276		
TOT PCT	31.5	50.5	17.3	.7	.0			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1880-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.7	3.4	41.2	41.8	8.0	.0	.0	11.4	100.0	352
0600	6.0	5.0	49.0	34.4	5.6	.0	.0	10.4	100.0	302
1200	9.8	5.0	43.4	36.7	5.0	.0	.0	10.0	100.0	357
1800	8.0	6.9	43.6	35.9	5.6	.0	.0	10.1	100.0	376
TOT	103	71	612	517	84	0	0	10.5		1387
PCT	7.4	5.1	44.1	37.3	6.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	21.1	9.7	8.6	11.2		3.8
NE	1.5	1.0	.8	.9		4.1
E	.3	.2	.4	.2		4.9
SE	.3	.3	.9	.8		5.9
S	.8	1.0	1.9	4.4		6.3
SW	.2	.6	1.7	2.3		6.4
W	1.0	1.0	2.2	2.6		5.7
NW	5.3	2.2	5.5	5.8		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.7	2.3	3.1		5.8
TOT OBS	324	129	247	319	1019	4.7
TOT PCT	31.8	12.7	24.2	31.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <3/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.8	.6	.7	2.8	5.8	6.2	.7	.1	.4	.2	28.2	
.8	.0	.2	.5	.4	.3	.2	.0	.0	.0	2.6	
.0	.0	.0	.1	.4	.1	.1	.0	.0	.0	.5	
.1	.2	.1	.2	.6	.1	.0	.0	.0	.0	.8	
.8	.3	.6	.9	1.8	1.1	.3	.0	.0	.0	2.5	
.4	.1	.3	1.1	.9	.3	.0	.0	.0	.0	1.6	
.1	.0	.3	.9	1.5	.5	.3	.0	.0	.0	3.1	
.6	.2	.6	1.8	3.9	2.4	.5	.0	.3	.2	8.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.1	.4	1.3	.8	1.3	.1	.0	.1	.0	2.4	
39	15	32	98	165	125	22	1	8	4	510	1019
3.8	1.5	3.1	9.6	16.2	12.3	2.2	.1	.8	.4	50.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	2.8	3.3	3.5	3.5	3.5	3.5	3.5	3.5
>2000	10.8	13.2	15.8	15.8	15.8	15.8	15.8	15.8
>1000	21.5	30.8	31.9	32.0	32.0	32.0	32.0	32.0
>400	26.5	39.4	41.3	41.5	41.5	41.5	41.5	41.5
>300	27.8	41.7	44.3	44.6	44.6	44.6	44.6	44.6
>150	28.2	42.8	45.7	46.1	46.1	46.1	46.1	46.1
>0	28.2	43.1	46.6	47.3	47.7	48.1	48.8	49.9
TOTAL	290	443	479	487	491	495	512	513

TOTAL NUMBER OF OBS: 1029

PCT FREQ NH <3/8: 50.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
18.7	9.8	10.7	7.6	9.3	4.5	7.3	9.8	25.1	1003
								3.2	

PERIOD: (PRIMARY) 1950-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
	NO PCP	.5	.0	.0	.1	.4	.0	.1	.8	.0	.7	2.5	
	TOT %	.5	.0	.0	.1	.5	.1	.2	.8	.0	.7	2.7	
1/2<1	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.1	.0	.0	.1	.0	.1	.0	.0	.6	
	TOT %	.4	.0	.1	.0	.0	.1	.0	.1	.0	.0	.7	
1<2	PCP	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.2	.0	.0	.0	.2	.2	.0	.1	.0	.2	.7	
	TOT %	.4	.1	.0	.0	.2	.3	.1	.1	.0	.2	1.3	
2<5	PCP	.1	.0	.1	.0	.4	.3	.1	.1	.0	.1	1.2	
	NO PCP	.5	.0	.0	.2	.4	.1	.1	.6	.0	.7	2.7	
	TOT %	.7	.0	.1	.2	.8	.4	.2	.7	.0	.7	3.9	
5<10	PCP	.6	.0	.0	.3	.7	.1	.3	.5	.0	.1	2.5	
	NO PCP	8.1	.5	.2	.2	1.5	1.1	1.3	4.1	.0	1.5	18.6	
	TOT %	8.8	.5	.2	.5	2.1	1.2	1.7	4.7	.0	1.6	21.1	
10+	PCP	.2	.0	.0	.0	.3	.0	.1	.1	.0	.1	.7	
	NO PCP	35.6	3.4	.7	1.2	3.9	3.2	4.7	13.2	.0	3.7	69.5	
	TOT %	35.7	3.4	.7	1.2	4.3	3.2	4.8	13.2	.0	3.8	70.2	
TOT OBS													1221
TOT PCT													46.4 4.1 1.0 1.9 7.9 5.3 6.9 19.6 .0 6.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.4	.0	.0	.2	.3	.0	.1	.6	.0	.0	1.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.5	.0	.0	.2	.5	.1	.2	.7	.0	.7	2.6	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4	
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.4	.0	.1	.0	.0	.1	.0	.2	.0	.0	.8	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.0	.0	.0	.1	.2	.0	.1	.0	.0	.7	
	11-21	.2	.0	.0	.0	.1	.1	.1	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.6	.1	.0	.0	.2	.3	.1	.2	.0	.2	1.5	
2<5	0-3	.0	.0	.1	.1	.0	.1	.0	.0	.0	.7	1.0	
	4-10	.5	.0	.0	.1	.3	.2	.2	.4	.0	.0	1.8	
	11-21	.2	.0	.0	.0	.4	.1	.1	.3	.0	.0	1.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.7	.0	.1	.2	.8	.4	.4	.8	.0	.7	4.0	
5<10	0-3	.2	.1	.0	.1	.1	.0	.1	.3	.0	1.8	2.6	
	4-10	2.1	.3	.2	.3	1.3	.9	1.0	2.7	.0	.0	8.7	
	11-21	5.2	.2	.0	.3	.7	.3	.6	1.5	.0	.0	8.8	
	22+	1.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	1.3	
	TOT %	8.5	.5	.2	.6	2.3	1.2	1.7	4.6	.0	1.8	21.4	
10+	0-3	.8	.0	.2	.3	.6	.2	.4	.9	.0	4.0	7.5	
	4-10	12.5	2.2	.4	.8	2.5	1.7	3.1	7.9	.0	.0	31.0	
	11-21	18.4	.9	.1	.1	1.2	1.1	1.0	3.7	.0	.0	26.5	
	22+	3.7	.1	.0	.0	.3	.0	.0	.4	.0	.0	4.5	
	TOT %	35.4	3.2	.7	1.2	4.5	3.1	4.5	12.9	.0	4.0	69.5	
TOT OBS													1911
TOT PCT													46.1 3.9 1.0 2.2 8.4 5.1 6.8 19.3 .0 7.3 100.0

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PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1880-1973

TABLE 10

AREA 0039 NEWPORT
44.8N 123.0WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.1	1.5	1.9	5.0	16.5	9.6	1.9	.0	1.1	.4	41.0	59.0	261
06009	3.3	1.3	5.0	11.7	9.2	11.7	2.1	.0	.4	.4	45.2	54.8	239
12015	5.4	2.3	3.5	8.9	15.6	14.8	1.9	.0	.0	.4	52.9	47.1	257
18021	3.1	.7	2.1	11.8	21.2	12.5	2.8	.3	1.4	.3	56.3	43.8	288
TOT	39	15	32	98	166	127	23	1	8	4	313	532	1045
PCT	3.7	1.4	3.1	9.4	15.9	12.2	2.2	.1	.8	.4	49.1	50.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	.6	2.1	3.6	17.3	74.4	336
06009	1.7	1.0	1.4	3.8	24.1	68.0	291
12015	4.8	1.2	1.2	4.2	25.1	63.6	335
18021	2.8	.6	1.4	4.4	19.4	71.4	360
TOT	38	11	20	53	202	918	1322
PCT	2.9	.8	1.5	4.0	21.3	69.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.1	6.6	13.6	29.1	57.4	258
06009	3.4	10.7	23.9	23.1	59.0	234
12015	5.5	11.9	22.5	32.0	45.5	253
18021	3.2	6.3	20.4	37.7	41.9	284
TOT	39	90	206	317	506	1029
PCT	3.8	8.7	20.0	30.8	49.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.1	.0	.9	.7	.3	.1	19	2.2
65/69	.0	.0	.0	.0	1.9	3.9	4.3	1.9	106	12.1
60/64	.0	.0	.0	.1	4.7	16.8	22.9	11.6	490	56.1
55/59	.0	.0	.0	.0	.3	1.1	12.6	13.4	240	27.5
50/54	.0	.0	.0	.0	.0	.0	.5	1.7	19	2.2
TOTAL	0	0	1	1	69	197	335	251	874	100.0
PCT	.0	.0	.1	.1	7.9	22.5	40.6	28.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.8	.0	.0	.1	.1	.1	.1	.5	.0	.5
65/69	5.1	.8	.1	.1	.6	1.2	.9	2.8	.0	.6
60/64	25.5	2.0	.6	1.0	4.6	3.8	5.3	11.0	.0	2.2
55/59	12.7	1.5	.6	1.1	.7	.7	1.3	4.4	.0	1.5
50/54	.9	.0	.1	.1	.1	.3	.1	.2	.0	.2
TOTAL	45.0	4.3	1.4	2.5	9.1	6.1	7.7	19.0	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	72	70	63	57	54	53	62.8	348
06009	68	65	64	60	55	53	51	59.9	305
12015	67	66	64	60	55	52	46	59.5	362
18021	72	70	67	62	56	52	52	61.7	374
TOT	73	70	67	61	55	53	46	61.0	1391

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	15.9	29.5	35.0	19.1	81	220
06009	.0	.0	1.9	18.4	41.3	38.3	87	206
12015	.0	.0	3.3	17.5	43.9	35.4	87	212
18021	.0	.4	10.3	23.5	42.0	23.9	83	243
TOT	0	2	71	197	357	254	84	881

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1880-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FDG	MO FDG
14/16	.0	.0	.0	.0	.0	.1	.1	.0	2	.1	.1
11/13	.0	.0	.0	.1	.4	.3	.1	.1	10	.1	.8
9/10	.0	.0	.0	.1	1.0	.5	.5	.0	24	.0	2.1
7/8	.0	.0	.1	1.0	1.1	1.1	.5	.1	43	.2	3.6
6	.0	.0	.1	1.1	1.6	.6	.4	.1	44	.4	3.5
5	.0	.0	.3	.6	2.0	1.0	.2	.0	46	.4	3.7
4	.0	.0	.4	2.0	2.3	1.2	.0	.0	66	.4	5.5
3	.0	.3	.7	3.0	2.6	1.4	.2	.0	92	1.2	6.9
2	.0	.0	.6	2.8	4.5	1.8	.1	.0	111	.8	9.0
1	.0	.1	.4	5.3	5.3	1.0	.0	.0	136	.4	11.6
0	.0	.0	1.0	4.3	6.8	.9	.0	.0	147	.7	12.3
-1	.0	.1	.6	4.7	5.0	.4	.0	.0	122	.3	10.3
-2	.0	.0	.9	4.2	5.2	.4	.0	.0	120	.6	10.0
-3	.0	.1	.5	3.3	2.1	.2	.0	.0	70	.3	5.9
-4	.0	.0	.4	2.1	1.0	.0	.0	.0	39	.1	3.4
-5	.0	.0	.3	1.7	.6	.1	.0	.0	30	.1	2.6
-6	.0	.0	.4	.4	.3	.0	.0	.0	12	.1	1.0
-7/-8	.0	.0	.2	.3	.3	.0	.0	.0	11	.1	.9
-9/-10	.0	.0	.1	.1	.1	.0	.0	.0	3	.0	.3
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	1	7	76	422	476	121	24	3	1130	71	1059
PCT	.1	.6	6.7	37.3	42.1	10.7	2.1	.3	100.0	6.3	93.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.0	.6	.0	.0	.0	5.1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.4	7.0	7.0	.0	.0	.0	14.4	.0	.2	.1	.0	.0	.0	.3
3-4	.0	5.2	7.0	.4	.0	.0	12.7	.0	.3	.2	.0	.0	.0	.5
5-6	.0	1.1	6.7	1.8	.0	.0	9.6	.0	.0	.2	.0	.0	.0	.2
7	.0	.5	1.1	.8	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.9	1.1	.0	.0	2.2	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	18.0	24.3	4.3	.0	.0	47.3	.0	2.2	.6	.1	.0	.0	2.9

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.3	.4	.3	.0	.0	.0	.0	1.0
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.4	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.1	.0	.0	.0	.8	.6	1.0	.2	.0	.0	.0	1.8

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0037 NEWPORT
44.0N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.0	.0	.0	.0	.0		2.0	.1	.9	.1	.0	.0	.0		1.2
1-2	.1	1.9	.8	.0	.0	.0		2.8	.*	1.5	.2	.0	.0	.0		1.7
3-4	.0	.5	1.4	.3	.0	.0		2.3	.0	.5	.8	.0	.0	.0		1.3
5-6	.0	.1	.3	.1	.0	.0		.5	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	.3	.1	.0	.0		.4	.0	.0	.*	.0	.0	.0		.*
8-9	.0	.0	.1	.5	.0	.0		.7	.0	.0	.0	.*	.0	.0		.*
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	4.5	3.0	1.1	.0	.0		8.7	.2	2.9	1.6	.*	.0	.0		4.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	1.6	.0	.0	.0	.0		1.7	.7	4.7	.4	.0	.0	.0		3.8	
1-2	.0	1.2	.4	.0	.0	.0		1.6	.3	4.3	.9	.0	.0	.0		5.5	
3-4	.0	.4	.7	.0	.0	.0		1.0	.0	2.3	2.5	.0	.0	.0		4.7	
5-6	.0	.0	.3	.0	.0	.0		.5	.0	.4	1.3	.3	.0	.0		2.0	
7	.0	.0	.1	.0	.0	.0		.1	.1	.3	.8	.2	.0	.0		1.4	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.1	.1	.0	.0	.0		.3	
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.1	.2	.0	.0	.0		.3	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.*	.0	.0	.0		.*	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	3.2	1.7	.0	.0	.0		5.0	1.1	12.1	6.1	.8	.0	.0		20.0	91.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.7	15.8	1.2	.0	.0	.0	27.6	
1-2	1.2	18.5	9.3	.0	.0	.0	27.0	
3-4	.1	9.2	12.7	.7	.0	.0	22.8	
5-6	.0	1.8	9.5	2.2	.0	.0	13.4	
7	.1	.7	2.3	1.2	.0	.0	4.4	
8-9	.0	.1	1.2	1.9	.0	.0	3.2	
10-11	.0	.1	.4	.0	.0	.0	.8	
12	.0	.0	.4	.1	.0	.0	.8	
13-16	.0	.0	.4	.0	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	44.2	37.5	6.1	.0	.0	100.0	685

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	6.0	15.5	9.4	2.9	1.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	389	4
6-7	.2	3.0	11.5	8.3	3.2	1.8	.6	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	291	3
8-9	.0	.5	4.4	4.9	3.2	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	3
10-11	.0	.3	1.3	1.5	1.0	.4	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
12-13	.0	.0	.5	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
>13	.0	.0	.0	.2	.5	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
INDET	2.7	1.8	2.1	1.2	.9	.3	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	3
TOTAL	40	138	357	257	121	51	22	9	9	1	1	0	0	0	0	0	0	0	0	1008	4
PCT	4.0	13.7	35.3	25.5	12.0	5.1	2.2	.9	.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973AREA 0039 NEWPORT
44.6N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SIG WEA
N	1.0	.1	1.0	.0	.0	.0	.0	2.1	.3	.2	8.1	.0	1.4	.0 88.1
NE	.5	.3	2.3	.0	.0	.0	.0	3.1	1.0	.0	12.6	.0	.0	.0 83.2
E	.0	.0	8.9	.0	.0	.0	.0	8.9	.0	.0	6.7	.0	3.3	.0 81.1
SE	4.0	.0	4.0	.0	.0	.0	.0	7.9	3.5	.4	13.2	1.8	1.3	.0 71.8
S	9.3	1.3	6.4	.0	.0	.0	.0	16.7	3.5	.3	11.2	1.1	4.3	.0 62.9
SW	6.9	.9	3.7	.0	.0	.0	.0	11.4	3.2	.0	11.6	.0	.6	.0 73.1
W	4.8	3.4	3.0	.0	.0	.0	.0	11.1	3.0	.0	3.6	.0	.8	.0 81.5
NW	1.8	1.1	1.3	.0	.0	.0	1.4	3.8	.6	.5	8.6	.0	.8	.0 83.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	4.1	.0	.0	.0	.0	5.3	.6	.0	16.5	1.2	1.2	.0 75.3
TOT PCT	3.2	.7	2.9	.0	.0	.0	.2	6.9	1.4	.2	9.8	.4	1.6	.0 79.7
TOT OBS:	1676													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST SIG WEA
00003	3.3	.0	2.2	.0	.0	.0	.2	5.4	1.1	.2	11.1	.2	3.0	.0 79.2
06009	2.6	1.2	4.1	.0	.0	.0	.0	7.9	1.2	.5	5.0	.2	.7	.0 84.4
12015	3.2	1.2	2.7	.0	.0	.0	.2	7.3	2.0	.0	9.0	.5	.0	.0 81.2
18021	3.6	.5	2.9	.0	.0	.0	.2	7.3	1.5	.0	14.6	.5	2.4	.0 73.8
TOT PCT	3.2	.7	2.9	.0	.0	.0	.2	6.9	1.4	.2	9.9	.4	1.6	.0 79.6
TOT OBS:	1699													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18
N	1.0	14.1	17.3	2.3	.1	.0		34.8	12.5		33.6	28.4	37.4	32.7	34.0	35.3	34.7
NE	.5	3.2	1.8	.1	.0	.0		5.7	10.0		3.8	2.7	4.5	9.2	7.4	6.6	7.2
E	.2	1.0	.3	.0	.0	.0		1.4	7.9		.7	1.4	1.6	.0	1.7	.8	2.1
SE	.3	2.4	.8	.1	.1	.0		3.7	9.1		2.7	3.1	2.9	4.1	4.2	3.1	4.9
S	1.0	8.3	5.7	1.1	.1	.0		16.2	10.9		15.2	20.9	15.3	9.2	14.1	11.7	20.7
SW	.5	4.2	2.0	.5	.0	.0		7.2	9.8		8.7	8.9	7.1	8.2	6.4	7.0	5.8
W	.7	4.5	2.4	.3	.0	.0		7.9	9.7		7.9	4.1	7.2	12.2	9.6	10.9	8.0
NW	.9	7.4	4.4	.3	.2	.0		13.2	10.0		17.1	15.1	14.2	18.4	11.0	19.5	7.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	10.0							10.0	.0		10.2	5.5	9.7	6.1	11.6	4.7	10.9
TOT OBS	280	846	649	91	8	0	1874		9.9		449	73	390	49	396	64	375
TOT PCT	14.9	45.1	34.6	4.9	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	6.3	20.1	7.7	.7	.0		34.8	12.5	34.2	26.8	34.2	34.0
NE	1.7	3.3	.6	.1	.0		5.7	10.0	3.7	5.0	7.3	7.0
E	.5	.9	.0	.0	.0		1.4	7.9	.8	1.4	1.6	1.9
SE	1.6	1.7	.3	.1	.0		3.7	9.1	2.8	3.1	4.0	4.9
S	5.2	7.9	2.7	.4	.0		16.2	10.9	16.0	14.6	13.8	20.4
SW	2.9	3.5	.7	.2	.0		7.2	9.8	8.8	7.2	6.5	6.2
W	2.9	4.0	.8	.2	.0		7.9	9.7	7.3	7.8	9.8	8.7
NW	4.1	7.6	1.2	.3	.0		13.2	10.0	16.9	14.7	12.2	8.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.0						10.0	.0	9.8	9.3	10.7	10.4
TOT OBS	659	918	262	33	0	1874		9.9	522	439	460	452
TOT PCT	35.2	49.0	14.0	1.9	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

AREA 0039 NEWPORT
44.0N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000Z	9.6	5.7	41.8	35.4	6.9	.6	.0	10.5	100.0	522
0600Z	9.3	3.6	46.7	37.4	3.0	.0	.0	9.8	100.0	439
1200Z	10.7	5.4	47.2	32.4	4.1	.2	.0	9.4	100.0	460
1800Z	10.4	4.9	45.5	33.3	5.1	.9	.0	9.9	100.0	453
TOT	187	93	846	649	91	8	0	9.9		1874
PCT	10.0	5.0	45.1	34.6	4.9	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	18.1	6.0	5.8	5.7		3.1
NE	3.7	.8	.6	1.2		2.9
E	.7	.2	.2	.3		3.5
SE	.7	.5	.6	1.9		5.7
S	1.1	1.3	3.2	10.5		6.8
SW	.5	1.2	2.1	3.2		6.2
W	1.2	1.3	2.1	2.2		5.3
NW	3.6	2.0	2.8	3.0		4.4
VAR	.0	.0	.0	.0		.0
CALM	4.3	1.2	.9	5.2		4.5
TOT OBS	469	201	254	460	1384	4.4
TOT PCT	33.9	14.5	18.4	33.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.7	.0	.8	1.3	2.6	2.3	.8	.1	.3	.1	25.6	
NE	.4	.0	.1	.3	.3	.3	.2	.0	.1	.0	4.7	
E	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.9	
SE	.4	.0	.3	.3	.5	.7	.1	.0	.1	.0	1.5	
S	1.6	.4	1.6	1.6	2.3	3.4	.9	.1	.3	.1	3.7	
SW	.6	.2	.3	.8	.8	1.5	.3	.0	.2	.0	2.3	
W	.3	.0	.4	.6	1.0	.7	.3	.1	.1	.1	3.2	
NW	.7	.1	.2	.8	1.6	1.1	.3	.1	.0	.0	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.2	.9	.6	.7	1.4	.3	.0	.1	.1	6.0	
TOT OBS	99	12	63	88	135	180	45	6	16	5	735	1384
TOT PCT	7.2	.9	4.6	6.4	9.8	11.6	3.3	.4	1.2	.4	54.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.4	1.9	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	3.6	4.9	5.3	5.3	5.3	5.3	5.3	5.3
= OR >2000	10.7	15.9	16.9	16.9	16.9	16.9	16.9	16.9
= OR >1000	18.5	24.8	26.5	26.8	26.8	26.9	26.9	26.9
= OR >600	19.9	29.7	32.4	32.8	32.9	33.0	33.0	33.0
= OR >300	21.5	33.1	36.6	37.1	37.2	37.4	37.4	37.4
= OR >150	21.6	33.6	37.3	37.9	38.1	38.2	38.2	38.2
= OR >0	21.7	34.1	38.0	38.7	39.3	42.0	45.3	45.4
TOTAL	303	476	530	539	548	585	631	633

TOTAL NUMBER OF OBS: 1394

PCT FREQ NM <5/8: 54.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	26.3	6.9	9.0	6.4	4.8	2.7	4.8	6.4	26.0	6.7	1459

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	1.6	.4	.0	.3	1.1	.6	.2	.7	.0	1.1	5.9	
	TOT %	1.6	.4	.0	.3	1.1	.6	.2	.7	.0	1.1	6.0	
1/2<1	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.3	.0	.0	.0	.3	.0	.0	.0	.0	.1	.9	
	TOT %	.4	.0	.0	.1	.4	.1	.0	.0	.0	.1	1.1	
1<2	PCP	.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.6	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.4	
	TOT %	.2	.0	.0	.0	.4	.1	.0	.1	.0	.1	1.0	
2<5	PCP	.1	.0	.1	.1	.9	.3	.3	.2	.0	.1	2.0	
	NO PCP	.7	.2	.1	.2	.9	.1	.1	.2	.0	.3	2.7	
	TOT %	.8	.2	.2	.2	1.8	.4	.4	.4	.0	.4	4.7	
5<10	PCP	.4	.1	.0	.1	.9	.4	.4	.3	.0	.4	3.1	
	NO PCP	6.6	.5	.2	.6	3.3	2.3	1.2	2.0	.0	1.7	18.3	
	TOT %	7.1	.6	.2	.8	4.1	2.6	1.6	2.4	.0	2.1	21.4	
10+	PCP	.1	.1	.0	.0	.3	.0	.1	.2	.0	.1	.8	
	NO PCP	26.1	4.6	1.0	1.9	7.9	3.2	5.2	8.8	.0	6.3	65.0	
	TOT %	26.2	4.6	1.0	1.9	8.2	3.2	5.3	9.1	.0	6.3	65.8	
TOT OBS													1672
TOT PCT													36.2 5.8 1.3 3.3 16.2 7.0 7.5 12.6 .0 10.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.0	.1	.1	.1	.0	.0	1.0	1.6	
	4-10	.6	.2	.0	.2	.8	.4	.1	.4	.0	.0	2.7	
	11-21	.7	.1	.0	.1	.2	.1	.0	.4	.0	.0	1.5	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	1.6	.4	.1	.3	1.1	.6	.2	.8	.0	1.0	6.0	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	11-21	.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.0	.0	.1	.4	.1	.0	.0	.0	.1	1.1	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	11-21	.1	.0	.0	.0	.2	.0	.0	.1	.0	.0	.4	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.0	.0	.0	.4	.1	.0	.2	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.3	.3	
	4-10	.3	.2	.1	.1	.7	.2	.4	.2	.0	.0	2.2	
	11-21	.3	.0	.1	.1	.8	.1	.1	.1	.0	.0	1.5	
	22+	.1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.5	
	TOT %	.7	.2	.2	.2	1.8	.5	.5	.3	.0	.3	4.7	
5<10	0-3	.0	.0	.0	.1	.2	.1	.0	.1	.0	2.3	2.9	
	4-10	2.4	.3	.1	.5	1.7	1.3	.7	.8	.0	.0	7.7	
	11-21	3.8	.2	.1	.3	1.8	.9	.6	1.0	.0	.0	8.7	
	22+	.7	.0	.0	.0	.4	.3	.2	.4	.0	.0	2.0	
	TOT %	6.9	.5	.2	.9	4.1	2.6	1.6	2.3	.0	2.3	21.3	
10+	0-3	.7	.4	.0	.1	.5	.3	.4	.7	.0	6.3	9.3	
	4-10	11.0	2.6	.8	1.4	4.9	2.2	3.1	3.7	.0	.0	31.7	
	11-21	12.8	1.6	.2	.3	2.6	.9	1.7	2.7	.0	.0	22.6	
	22+	1.5	.1	.0	.0	.3	.0	.1	.1	.0	.0	2.2	
	TOT %	25.9	4.7	.9	1.9	8.3	3.4	5.3	9.2	.0	6.3	65.8	
TOT OBS													1786
TOT PCT													35.7 5.8 1.5 3.3 16.1 7.2 7.6 12.6 .0 10.1 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1860-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.2	.8	5.0	6.3	8.9	10.4	2.6	1.0	2.1	.3	42.6	57.4	383
06009	4.6	.9	4.6	6.8	8.0	14.0	2.8	.3	1.1	.3	43.3	56.7	351
12015	8.8	1.2	2.4	4.9	10.6	11.9	3.0	.0	1.2	.6	44.7	55.3	329
18021	10.1	.6	5.6	6.8	11.8	9.6	4.5	.6	.0	.3	49.9	50.1	355
TOT	101	12	63	88	139	162	46	7	16	5	639	779	1418
PCT	7.1	.8	4.4	6.2	9.8	11.4	3.2	.5	1.1	.4	49.1	54.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL	--
(GMT)							OBS	
00003	5.2	1.0	1.6	6.8	21.9	63.6	303	
06009	3.9	.0	.5	4.2	20.4	71.1	432	
12015	6.6	1.1	1.4	3.4	23.6	63.9	441	
18021	8.8	2.1	.9	4.4	20.6	63.3	433	
TOT	110	19	20	86	391	1183	1809	
PCT	6.1	1.1	1.1	4.8	21.6	65.4	100.0	

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <3/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	5.6	11.6	22.6	23.1	54.3	372
06009	4.6	10.6	19.8	23.3	54.9	348
12015	9.0	13.0	20.4	23.6	54.0	324
18021	10.3	16.6	23.1	23.4	49.4	350
TOT	102	180	307	346	741	1394
PCT	7.3	12.9	22.0	24.8	53.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
70/74	.0	.0	.0	.3	.1	.0	.1	.0	4	.5
65/69	.0	.0	.1	.1	.8	3.9	2.6	1.2	65	8.8
60/64	.0	.0	.3	.5	4.1	12.5	22.4	10.7	372	50.6
55/59	.0	.0	.5	2.3	6.0	17.1	10.6		269	36.6
50/54	.0	.0	.0	.3	.1	.5	1.0	1.2	23	3.1
45/49	.0	.0	.0	.0	.0	.0	.1	.1	2	.3
TOTAL	0	0	3	13	39	169	319	176	735	100.0
PCT	.0	.0	.4	1.8	7.8	23.0	43.4	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.3	.0	.0	.0	.1	.1	.0	.0	.0
65/69	2.4	.3	.2	.9	1.7	.8	2.3	.0	.4
60/64	19.4	3.0	.6	1.5	7.4	3.3	5.2	8.5	1.8
55/59	13.4	2.2	.4	1.2	6.0	1.5	3.4	6.1	2.4
50/54	1.2	.1	.0	.2	.4	.0	.2	.7	.3
45/49	.0	.0	.0	.1	.0	.0	.0	.0	.1
TOTAL	36.7	5.6	1.2	2.9	15.5	9.7	9.7	17.7	5.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	75	71	68	61	56	54	53	61.7	521
06009	72	68	64	60	59	52	51	59.9	440
12015	67	63	63	59	54	51	47	58.9	458
18021	73	69	66	60	59	53	51	60.6	453
TOT	75	69	66	60	59	53	47	60.3	1872

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	2.0	8.6	27.9	42.1	19.3			81	197
06009	.0	1.6	3.7	18.7	49.2	26.7			84	187
12015	.0	.6	7.4	20.0	41.7	30.3			85	175
18021	.0	4.3	9.7	24.3	41.6	20.0			81	185
TOT	0	16	55	170	325	178			83	744

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1960-1973

SEPTEMBER

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	W FOG
11/13	.0	.0	.0	.0	.4	.4	.4	.1	21	.2	1.1
9/10	.0	.0	.1	.1	.6	.6	.3	.0	28	.0	1.8
7/8	.0	.0	.1	.2	1.7	1.3	.2	.0	55	.4	3.1
6	.0	.0	.0	.3	1.1	1.2	.1	.1	44	.3	2.5
5	.0	.0	.1	.5	2.7	1.3	.1	.0	75	.6	4.1
4	.0	.0	.1	1.3	3.9	.8	.0	.0	93	.6	5.4
3	.0	.0	.3	1.6	3.8	.7	.0	.0	100	.8	5.6
2	.0	.0	.8	4.1	6.6	.9	.0	.0	195	1.2	11.2
1	.0	.0	.5	7.0	5.2	.1	.0	.0	201	1.5	11.3
0	.0	.1	.9	8.5	5.1	.7	.1	.0	241	1.6	13.8
-1	.0	.3	.4	7.7	2.7	.2	.0	.0	177	1.3	9.9
-2	.0	.1	1.0	5.1	1.7	.1	.0	.0	125	.4	7.6
-3	.0	.0	.7	3.5	.8	.0	.0	.0	78	.6	4.4
-4	.1	.0	1.1	1.8	.6	.0	.0	.0	55	.3	3.3
-5	.0	.0	1.8	1.1	.4	.0	.0	.0	51	.5	2.7
-6	.1	.0	.4	.2	.1	.0	.0	.0	11	.1	.6
-7/-8	.0	.1	.6	.3	.1	.0	.0	.0	16	.1	.9
-9/-10	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	7	140	680	590	129	18	3	1569	163	1406
PCT	.1	.4	8.9	43.3	37.6	8.2	1.1	.2	100.0	10.4	89.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	4.5	.1	.0	.0	.0	5.0	.4	1.5	.1	.0	.0	.0	2.0
1-2	.2	5.2	3.6	.0	.0	.0	8.9	.4	1.3	.3	.0	.0	.0	1.6
3-4	.1	4.8	6.2	.2	.0	.0	11.3	.1	.7	.4	.0	.0	.0	1.2
5-6	.0	.6	4.2	.7	.0	.0	5.6	.0	.0	.2	.1	.0	.0	.3
7	.0	.6	1.5	.3	.0	.0	2.4	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	15.7	16.3	1.5	.1	.0	34.2	.5	3.5	1.4	.2	.0	.0	5.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	1.2	.0	.0	.0	.0	1.3
1-2	.0	.7	.2	.0	.0	.0	.9	.1	1.2	.1	.0	.0	.0	1.4
3-4	.0	.3	.2	.0	.0	.0	.5	.0	.4	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.2	.4	.0	.0	.0	1.7	.2	2.8	.6	.8	.0	.0	3.7

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0039 NEWPORT
44.6N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	4.3	.2	.0	.0	.0		5.1	.1	2.0	.2	.0	.0	.0		2.3
1-2	.2	3.4	1.4	.0	.0	.0		5.0	.0	1.4	.6	.0	.0	.0		2.1
3-4	.0	1.6	1.8	.2	.0	.0		3.6	.0	.8	1.0	.0	.0	.0		1.8
5-6	.0	.5	1.5	.4	.1	.0		2.4	.0	.1	.3	.1	*	.0		.6
7	.0	.0	.3	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.3	.1	.0	.0		.4	.0	.0	.4	.0	.0	.0		.4
10-11	.0	.1	.1	.3	.0	.0		.4	.0	*	.0	*	.0	.0		*
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	9.8	5.6	1.0	.1	.0		17.3	.1	4.3	2.3	.2	*	.0		7.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.8	.3	.0	.0	.0		2.4	.4	2.3	.0	.0	.0	.0		2.9	
1-2	.1	1.4	.9	.0	.0	.0		2.4	.0	1.8	1.3	.0	.0	.0		3.1	
3-4	.0	.7	.9	.1	.0	.0		1.6	*	1.8	1.3	*	.0	.0		3.2	
5-6	.0	.0	.4	.0	.0	.0		.4	.0	.2	.8	*	.0	.0		1.0	
7	.0	.0	.2	.0	.0	.0		.2	.1	.1	.2	*	.0	.0		.5	
8-9	.0	.1	.0	.0	.0	.0		.1	.0	.0	*	.0	.0	.0		*	
10-11	.0	.0	.1	.1	.0	.0		.1	.0	.0	*	.0	.0	.0		*	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	4.0	2.8	.1	.0	.0		7.2	.5	6.5	3.7	.2	.0	.0		10.8	87.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	18.1	.9	.0	.0	.0	33.8	
1-2	.5	16.5	8.5	.0	.0	.0	25.5	
3-4	.4	10.9	12.1	.5	.0	.0	23.9	
5-6	.0	1.4	7.5	1.4	.1	.0	10.3	
7	.1	.7	2.4	.5	.0	.0	3.7	
8-9	.0	.1	1.3	.2	.0	.0	1.5	
10-11	.0	.1	.5	.5	.0	.0	1.2	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.8	47.7	33.1	3.2	.2	.0	100.0	1111

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	12.8	12.2	5.9	3.0	.9	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	3
6-7	.0	4.6	7.1	6.6	4.5	1.3	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	359	5
8-9	.0	1.2	3.9	4.7	3.9	1.4	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	6
10-11	.0	.1	.8	.6	.9	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
12-13	.0	.0	.8	.2	.1	.4	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.4	.3	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDET	6.0	2.5	2.5	1.8	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	194	2
TOTAL	111	301	384	287	186	68	43	12	14	5	1	0	0	0	0	0	0	0	0	1412	4
PCT	7.9	21.3	27.2	20.3	13.2	4.8	3.0	.8	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1930-1973
(OVER-ALL) 1861-1973AREA 0039 NEWPORT
44.7N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	2.3	1.4	.0	.0	.0	.0	5.0	.5	.0	7.4	.0	.8	.0	86.5
NE	.0	1.6	1.2	.0	.0	.0	.0	2.8	.0	.8	5.0	.0	.8	.0	90.7
E	9.4	7.3	1.2	.0	.0	.0	.0	18.0	1.6	.0	9.4	.0	3.3	.0	67.8
SE	7.1	1.4	10.4	.0	.0	.0	.0	17.7	3.0	.0	13.4	.3	2.2	.0	63.3
S	13.9	3.7	4.5	.0	.0	.0	.0	22.1	4.5	.0	11.9	.7	2.4	.3	58.1
SW	11.2	6.2	2.3	.0	.0	.0	.0	19.8	5.1	1.7	6.2	.7	2.2	.0	64.6
W	6.3	6.6	1.4	.0	.0	.0	.0	14.4	6.5	2.0	3.9	.0	.4	.7	72.5
NW	2.7	8.1	2.2	.0	.0	.0	.0	13.0	3.1	.1	4.0	.0	1.0	.0	78.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	16.7	.0	1.3	.0	80.8
TOT PCT	6.4	4.0	2.8	.0	.0	.0	.0	13.2	3.0	.4	8.3	.3	1.5	.1	73.2
TOT DBS:	1582														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.7	3.9	2.3	.0	.0	.0	.0	11.9	2.7	.5	6.2	.0	1.8	.0	76.9
06009	7.8	3.1	2.9	.0	.0	.0	.0	13.8	2.1	.5	9.7	.5	1.3	.3	72.1
12015	6.2	5.0	2.5	.0	.0	.0	.0	13.7	4.5	.5	11.2	.0	1.0	.2	68.9
18021	5.9	3.8	3.6	.0	.0	.0	.0	13.0	2.6	.3	7.7	.5	1.8	.0	74.2
TOT PCT	6.4	4.0	2.8	.0	.0	.0	.0	13.1	3.0	.4	8.6	.2	1.5	.1	73.1
TOT DBS:	1614														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	9.2	10.1	1.7	.2	.1		22.3	12.5		26.6	29.7	25.1	21.6	21.1	19.8	17.1	16.9
NE	.4	3.9	3.1	.5	.0	.0		7.9	10.7		4.9	4.3	8.5	6.8	9.8	10.7	8.5	9.1
E	.5	2.0	1.5	.2	.1	.0		4.3	10.9		2.5	5.8	1.7	4.8	4.1	7.9	6.2	8.1
SE	.4	3.9	1.9	.6	.2	.1		7.0	11.9		4.2	8.0	6.7	2.4	8.1	14.8	7.8	7.1
S	.8	7.6	9.9	3.8	.9	.1		23.1	15.1		22.8	10.9	24.0	20.2	25.3	14.8	27.0	21.4
SW	.5	4.3	5.0	1.4	.4	.0		11.5	14.0		12.9	15.2	8.7	12.3	10.5	13.8	11.0	14.3
W	.7	3.6	3.2	.8	.3	.0		8.7	12.9		9.2	5.1	10.0	13.0	8.0	7.1	7.4	9.1
NW	.6	4.2	4.1	.8	.1	.0		9.8	12.3		11.5	16.7	9.0	13.4	7.2	8.3	10.2	8.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0		5.5	4.3	6.3	5.3	5.9	2.9	4.9	3.2
TOT DBS	188	721	721	183	41	4	1858		12.4		419	69	334	73	376	105	328	194
TOT PCT	10.1	38.8	38.8	9.8	2.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	4.7	11.5	5.6	.3	.1		22.3	12.5		27.0	24.5	20.8	17.1	
NE	2.2	4.6	.9	.2	.0		7.9	10.7		4.8	8.2	10.0	8.7	
E	1.6	1.9	.5	.3	.0		4.3	10.9		3.0	2.3	4.9	6.8	
SE	2.2	3.6	.7	.3	.2		7.0	11.9		4.7	5.9	9.6	7.6	
S	3.8	11.2	5.8	2.1	.3		23.1	15.1		2.1	23.3	23.0	25.2	
SW	2.4	5.2	3.0	.9	.1		11.5	14.0		12.2	9.3	11.2	12.0	
W	2.2	4.4	1.5	.5	.1		8.7	12.9		8.6	10.6	7.8	7.9	
NW	2.4	5.0	2.1	.4	.1		9.8	12.3		12.2	9.8	7.5	9.8	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	5.4						5.4	.0		5.3	6.1	5.2	5.0	
TOT DBS	498	881	374	91	14	1858		12.4		488	407	481	482	
TOT PCT	26.8	47.4	20.1	4.9	.8		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1930-1973
(OVER-ALL) 1861-1973

OCTOBER

AREA 0039 NEWPORT
44.7N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.3	3.9	36.7	38.3	12.9	2.3	.6	13.2	100.0	488
0600	6.1	4.4	35.9	40.8	9.8	2.9	.0	12.6	100.0	407
1200	5.2	8.0	42.0	37.2	7.9	1.7	.0	11.6	100.0	481
1800	5.0	4.6	40.2	39.2	8.7	2.1	.2	12.2	100.0	482
TOT	100	88	721	721	183	41	4	12.4		1858
PCT	5.4	4.7	38.8	38.8	9.8	2.2	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	13.6	3.0	3.1	2.6		2.6
NE	5.0	1.0	1.6	1.0		2.7
E	1.5	.4	.6	1.4		4.4
SE	1.3	.4	1.6	3.1		5.8
S	1.5	1.5	4.9	15.4		6.9
SW	.9	1.2	3.4	4.8		6.3
W	1.2	1.3	3.9	2.4		5.5
NW	2.3	2.7	2.9	1.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.4	.9	1.1	2.7		5.2
TOT OBS	349	140	276	421	1190	4.9
TOT PCT	29.0	12.4	23.2	35.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

AND OCCURRENCE BY NM <5/8 WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999			OBS
.4	.1	.4	.3	1.6	1.8	.2	.0	.0	.2	17.6	
.4	.0	.2	.2	.8	.3	.1	.0	.0	.0	6.6	
.2	.0	.1	.1	.4	.4	.1	.0	.0	.1	2.5	
.7	.1	.5	.6	.5	.9	.6	.0	.0	.0	2.6	
2.5	.9	1.1	2.3	4.6	5.7	1.2	.1	.2	.1	5.1	
.2	.1	.5	1.4	2.0	2.0	.9	.2	.1	.1	3.0	
.2	.0	.1	.7	1.7	2.2	.2	.1	.1	.2	3.3	
.3	.1	.4	1.5	1.0	.2	.2	.2	.2	.0	5.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.0	.1	.8	1.1	.0	.1	.3	.0	2.9	
67	15	36	70	158	188	42	9	10	8	587	1190
5.6	1.3	3.0	5.9	13.3	15.8	3.5	.8	.8	.7	49.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >3	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >3000	1.2	1.3	1.5	1.5	1.5	1.5	1.5	1.5
= OR >2000	1.8	2.1	2.3	2.3	2.3	2.3	2.3	2.3
= OR >1500	4.8	5.4	5.7	5.7	5.7	5.7	5.8	5.8
= OR >1000	19.2	20.1	21.3	21.3	21.3	21.6	21.8	21.8
= OR >800	22.9	30.8	32.6	34.6	34.6	34.8	35.0	35.0
= OR >600	25.9	35.6	39.1	40.3	40.6	40.7	40.9	40.9
= OR >400	26.6	37.5	41.7	43.0	43.3	43.6	43.8	43.8
= OR >200	26.8	38.3	42.8	44.2	44.8	44.8	45.1	45.1
= OR >0	26.9	38.6	43.3	44.9	46.3	47.8	50.3	50.8
TOTAL	323	483	519	539	556	574	606	609

TOTAL NUMBER OF OBS: 1200

PCT FREQ NM <5/8: 49.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.1	9.1	9.3	8.0	5.9	4.7	7.3	7.3	27.4	1254

PERIOD: (PRIMARY) 1930-1973
(OVER-ALL) 1861-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	NO PCP	.6	.3	.1	.6	1.8	.3	.1	.2	.0	.6	4.3	
	TOT %	.7	.3	.1	.6	2.0	.3	.1	.3	.0	.6	4.9	
1/2<1	PCP	.1	.0	.1	.0	.5	.2	.0	.1	.0	.0	1.0	
	NO PCP	.6	.0	.1	.1	.3	.1	.2	.2	.0	.1	1.7	
	TOT %	.7	.0	.2	.1	.8	.4	.3	.2	.0	.1	2.7	
1<2	PCP	.1	.0	.0	.2	.4	.2	.1	.1	.0	.0	1.1	
	NO PCP	.1	.1	.0	.2	.2	.1	.0	.0	.0	.1	.7	
	TOT %	.2	.1	.0	.4	.7	.3	.1	.1	.0	.1	1.8	
2<5	PCP	.0	.1	.2	.3	1.8	.4	.3	.1	.0	.0	3.1	
	NO PCP	.2	.1	.2	.1	.6	.3	.1	.1	.0	.1	1.9	
	TOT %	.2	.1	.5	.4	2.5	.7	.3	.2	.0	.1	5.0	
5<10	PCP	.6	.1	.3	.4	1.9	1.3	.5	.8	.0	.0	6.0	
	NO PCP	3.1	1.1	.7	.8	5.5	2.8	1.8	2.3	.0	.4	18.5	
	TOT %	3.7	1.2	1.0	1.2	7.5	4.0	2.3	3.1	.0	.4	24.5	
10+	PCP	.3	.0	.0	.1	.5	.1	.4	.3	.0	.0	1.6	
	NO PCP	17.4	6.2	2.1	3.0	9.7	5.6	5.4	6.4	.0	3.7	59.4	
	TOT %	17.6	6.2	2.1	3.1	10.1	5.8	5.8	6.7	.0	3.7	61.1	
TOT OBS													1577
TOT PCT													23.1 8.0 3.9 5.8 23.5 11.4 8.8 10.5 .0 4.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.1	.0	.1	.1	.0	.3	1.1	
	4-10	.3	.2	.2	.5	.7	.2	.1	.1	.0	.0	2.2	
	11-21	.1	.0	.0	.1	.8	.1	.0	.1	.0	.0	1.2	
	22+	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	.4	
	TOT %	.6	.3	.2	.5	1.9	.3	.2	.3	.0	.5	4.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.3	.0	.1	.0	.2	.1	.2	.1	.0	.0	.9	
	11-21	.3	.0	.1	.1	.2	.2	.0	.1	.0	.0	1.0	
	22+	.0	.0	.1	.0	.4	.1	.0	.0	.0	.0	.5	
	TOT %	.6	.0	.2	.1	.8	.4	.2	.2	.0	.1	2.6	
1<2	0-3	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.3	
	4-10	.1	.1	.1	.3	.1	.1	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.1	.3	.2	.1	.1	.0	.0	.7	
	22+	.1	.0	.0	.1	.3	.1	.0	.0	.0	.0	.5	
	TOT %	.2	.1	.1	.4	.7	.4	.1	.1	.0	.1	2.2	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.4	
	4-10	.1	.1	.2	.2	.5	.1	.0	.0	.0	.0	1.1	
	11-21	.1	.1	.2	.2	1.1	.5	.1	.1	.0	.0	2.4	
	22+	.1	.0	.1	.2	.8	.1	.2	.1	.0	.0	1.5	
	TOT %	.3	.1	.4	.6	2.4	.8	.3	.2	.0	.2	5.4	
5<10	0-3	.2	.1	.1	.1	.0	.2	.2	.2	.0	.6	1.7	
	4-10	1.8	.8	.5	.7	1.9	1.2	.8	.9	.0	.0	8.7	
	11-21	1.6	.3	.3	.5	3.7	1.8	.8	1.4	.0	.0	10.3	
	22+	.4	.1	.1	.3	1.7	.7	.5	.4	.0	.0	4.1	
	TOT %	4.0	1.2	1.0	1.5	7.4	3.8	2.3	2.9	.0	.6	24.8	
10+	0-3	.6	.1	.3	.1	.4	.1	.5	.2	.0	1.7	6.0	
	4-10	6.8	2.8	.9	1.7	4.2	2.5	2.4	3.2	.0	.0	24.5	
	11-21	8.4	2.7	.9	1.1	4.3	2.1	2.4	2.8	.0	.0	24.8	
	22+	1.6	.4	.1	.1	1.0	.8	.4	.5	.0	.0	4.9	
	TOT %	17.3	6.0	2.2	3.1	10.0	5.4	5.6	6.6	.0	3.7	60.2	
TOT OBS													1684
TOT PCT													23.2 7.8 4.0 6.3 23.1 11.2 8.7 10.4 .0 5.3 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.8	.9	2.5	4.9	13.6	17.0	4.9	1.2	.3	.0	48.1	51.9	324
06009	7.1	2.0	3.0	6.4	10.1	13.3	3.0	.0	1.0	.7	47.0	53.0	296
12015	7.7	.7	2.5	7.0	14.7	13.3	2.8	.4	1.8	.7	51.6	48.4	285
18021	5.1	1.3	3.8	5.4	14.1	18.8	2.9	1.3	.3	1.3	54.3	45.7	313
TOT	48	15	36	72	160	192	42	9	10	8	612	606	1218
PCT	5.6	1.2	3.0	5.9	13.1	15.8	3.4	.7	.8	.7	50.2	49.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.3	2.2	2.2	5.4	24.0	61.9	402
06009	6.3	3.3	2.0	6.0	23.4	59.0	398
12015	5.9	3.4	2.3	5.2	28.2	55.2	444
18021	3.4	2.2	2.2	5.1	23.3	63.8	412
TOT	85	47	37	93	425	1029	1716
PCT	9.0	2.7	2.2	5.4	24.8	60.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.8	7.5	17.9	31.8	50.3	318
06009	7.5	14.3	25.9	23.1	51.0	294
12015	7.9	11.5	23.7	31.2	45.2	279
18021	5.2	10.7	18.4	36.9	44.7	309
TOT	69	131	256	370	574	1200
PCT	5.8	10.9	21.3	30.8	47.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.0	.1	.0	2	.2
65/69	.0	.1	.2	.4	.2	.1	.4	.5	16	2.0
60/64	.0	.0	.0	.6	2.0	3.4	6.2	3.2	125	15.4
55/59	.0	.0	.2	1.1	5.0	18.3	20.3	14.9	472	58.1
50/54	.0	.0	.0	.7	3.3	5.4	6.9	5.8	180	22.1
45/49	.0	.0	.2	.4	.0	.2	.6	.6	17	2.1
40/44	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	1	6	26	87	209	281	203	813	100.0
PCT	.0	.1	.7	3.2	10.7	25.7	34.6	25.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0
65/69	.9	.8	.1	.1	.2	.4	.0	.3	.0	.0
60/64	3.3	1.2	1.3	.8	4.0	2.3	.8	1.3	.0	.4
55/59	14.4	3.4	2.1	3.9	14.2	6.9	5.0	8.4	.0	1.8
50/54	4.6	2.1	1.0	2.2	5.2	1.6	1.8	2.7	.0	1.0
45/49	.1	.8	.3	.2	.2	.2	.3	.3	.0	.0
40/44	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	23.5	7.3	4.8	7.1	23.8	11.3	8.0	11.1	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	70	65	58	52	49	42	58.0	491
06009	68	66	61	56	51	47	45	56.2	414
12015	69	64	60	56	51	48	44	55.8	487
18021	69	67	64	57	52	49	43	57.3	482
TOT	72	67	63	57	52	48	42	56.9	1874

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.2	14.1	23.5	36.6	20.7	80	213		
06009	.0	2.0	8.5	27.0	31.5	31.0	84	200		
12015	.0	3.0	5.9	26.1	35.3	29.6	84	203		
18021	.0	5.6	13.5	25.1	35.3	20.5	80	213		
TOT	0	33	88	211	289	210	82	831		

PERIOD: (PRIMARY) 1930-1973
(OVER-ALL) 1861-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT FOG	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.3	.0	.0	5	.1	.3
11/13	.0	.0	.0	.1	.1	.2	.1	.3	10	.0	.7
9/10	.0	.0	.0	.0	.3	.3	.4	.3	18	.2	1.0
7/8	.0	.0	.0	.1	.3	.9	1.5	.1	45	.3	2.7
6	.0	.0	.0	.1	.5	.3	.3	.0	18	.1	1.1
5	.0	.0	.0	.3	1.1	1.1	.3	.0	40	.3	2.4
4	.0	.0	.0	.7	2.3	1.1	.2	.0	63	.4	3.8
3	.0	.0	.0	.6	3.0	1.1	.1	.0	73	.3	4.6
2	.0	.0	.2	2.4	4.3	1.6	.0	.0	126	.7	7.7
1	.0	.0	.3	3.0	6.4	1.2	.0	.0	166	.8	10.3
0	.0	.1	.3	5.3	9.3	.7	.0	.0	238	1.1	14.8
-1	.1	.1	.7	7.6	5.0	.3	.1	.0	208	1.0	13.0
-2	.0	.1	.7	7.1	3.4	.3	.0	.0	172	1.5	10.1
-3	.0	.1	1.6	4.6	1.9	.0	.0	.0	122	.9	7.3
-4	.0	.3	.9	3.0	1.1	.2	.0	.0	81	.3	5.2
-5	.0	.1	.9	1.8	.3	.1	.0	.0	48	.3	3.0
-6	.0	.0	.4	1.3	.3	.0	.0	.0	30	.2	1.8
-7/-8	.0	.0	.6	.4	.1	.0	.0	.0	17	.0	1.1
-9/-10	.0	.1	.1	.0	.1	.0	.0	.0	3	.1	.1
-11/-13	.1	.0	.0	.2	.0	.0	.0	.0	4	.0	.3
-14/-16	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3		106	573	592	147	44		1489	127	1362
PCT	.2	.8	7.1	38.6	39.8	9.9	3.0	.7	100.0	8.3	91.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.2	.0	.0	.0	.0	2.3	.1	2.0	.0	.0	.0	.0	2.1
1-2	.1	3.0	2.5	.0	.0	.0	5.5	.1	1.6	1.6	.0	.0	.0	3.3
3-4	.2	2.9	3.9	.4	.0	.0	7.4	.1	.7	1.5	.1	.0	.0	2.3
5-6	.0	.5	2.3	.6	.0	.0	3.4	.0	.1	.4	.1	.0	.0	.7
7	.0	.2	.1	.1	.0	.0	.8	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.9	.1	.0	.0	1.0	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	8.8	9.8	1.5	.1	.0	20.7	.2	4.3	3.7	.7	.0	.0	9.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.2	.0	.0	.0	1.2
1-2	.1	.8	.5	.0	.0	.0	1.4	.0	1.7	1.0	.0	.0	.0	2.7
3-4	.0	.2	.3	.0	.0	.0	.3	.0	.3	.8	.1	.0	.0	1.1
5-6	.0	.1	.6	.2	.0	.0	.9	.0	.1	.4	.1	.0	.0	.7
7	.0	.0	.1	.1	.0	.0	.2	.0	.1	.1	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.4	1.5	.3	.1	.0	3.6	.0	3.1	2.6	.6	.2	.0	6.3

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.0	.0	.0	.0	2.2	.2	.7	.0	.0	.0	.0	.9
1-2	.2	2.9	2.6	.0	.0	.0	5.7	.1	2.2	.6	.0	.0	.0	3.0
3-4	.1	2.2	5.2	.6	.0	.0	8.1	.0	.3	1.4	.0	.0	.0	1.7
5-6	.0	.4	2.7	1.9	.3	.0	4.1	.0	.1	1.0	.1	.0	.0	1.2
7	.0	.0	.8	1.0	.3	.0	2.0	.0	.0	.9	.5	.0	.0	1.4
8-9	.0	.0	.4	.8	.2	.0	1.4	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.1	.2	.7	.1	.0	1.1	.0	.1	.1	.5	.1	.0	.8
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.1	.0	.0	.3
13-16	.0	.0	.0	.5	.4	.0	.9	.0	.1	.4	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.3	12.0	4.3	1.3	.0	25.9	.3	3.5	4.9	1.5	.2	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.3	.0	.0	.0	.0	1.7	.1	.8	.1	.0	.0	.0	1.1	
1-2	.2	1.3	.6	.0	.0	.0	2.1	.2	1.6	.9	.0	.0	.0	2.7	
3-4	.1	.4	1.1	.2	.0	.0	1.8	.0	.8	1.5	.2	.0	.0	2.5	
5-6	.0	.0	.6	.2	.1	.0	.9	.0	.1	1.1	.0	.0	.0	1.3	
7	.1	.0	.9	.1	.0	.0	1.1	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.1	.2	.1	.0	.4	.0	.0	.4	.1	.1	.0	.6	
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	3.0	3.6	1.0	.2	.0	8.5	.4	3.4	4.1	.7	.1	.0	8.8	93.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	9.8	.3	.0	.0	.0	18.3	
1-2	1.3	15.1	10.3	.0	.0	.0	26.6	
3-4	.4	7.7	15.6	1.5	.0	.0	25.2	
5-6	.0	1.5	9.1	2.2	.2	.0	13.0	
7	.1	.3	2.9	2.7	.4	.0	6.4	
8-9	.0	.0	2.3	1.6	.5	.0	4.5	
10-11	.0	.2	1.0	1.8	.3	.0	3.3	
12	.0	.0	.5	.5	.0	.0	1.1	
13-16	.0	.1	.1	.7	.4	.0	1.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	34.7	42.1	11.0	2.1	.0	100.0	943

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.1	10.9	7.2	2.8	1.6	1.1	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	4
6-7	.0	.6	4.6	7.0	5.3	4.7	1.6	.3	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	306	6
8-9	.0	.4	3.2	6.3	4.4	2.8	2.7	1.2	2.0	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	292	8
10-11	.0	.1	.8	2.0	.8	1.3	1.1	.5	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	90	8
12-13	.0	.0	.2	.2	.0	.3	.4	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	10
>13	.0	.0	.0	.2	.4	.1	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDEX	2.6	.2	1.8	2.6	1.1	.5	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	4
TOTAL	43	91	263	313	182	140	90	36	51	9	8	2	2	0	0	0	0	0	0	1230	6
PCT	3.5	7.4	21.4	25.4	14.8	11.4	7.3	2.9	4.1	.7	.7	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1877-1972

NOVEMBER

AREA 0039 NEWPORT
44.7N 123.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.4	1.4	.9	.0	.0	.0	.0	2.6	3.5	.0	2.6	.0	2.2	.0	89.0
NE	2.5	.0	.3	.0	.0	.0	.0	2.8	.0	1.1	7.3	.0	.6	.0	88.0
E	4.1	.9	1.3	.0	.0	.0	.0	6.3	.9	.0	2.5	.0	6.0	.0	84.3
SE	11.9	1.8	4.2	.0	.0	.0	.0	17.9	2.3	.0	2.6	.0	1.6	.0	75.6
S	18.8	4.3	5.8	.0	.0	.0	.4	29.3	4.7	.3	7.1	.3	1.8	.0	56.3
SW	12.4	4.0	8.2	.0	.0	.0	.4	24.9	9.3	.7	3.8	.0	.0	.0	61.8
W	6.4	7.3	3.1	.0	.0	.0	.0	17.0	5.3	1.8	2.4	.0	.9	.0	72.4
NW	4.1	5.9	1.7	.0	.0	.0	.0	11.7	3.4	.7	3.2	.7	1.4	.0	77.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	1.5	.0	.0	.0	.0	3.0	1.5	.0	13.6	1.5	3.0	.0	77.3
TOT PCT	9.2	3.3	3.6	.0	.0	.0	.1	16.3	4.2	.4	4.9	.2	1.8	.0	72.3
TOT OBS:	1357														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	10.2	3.8	4.0	.0	.0	.0	.3	18.3	3.0	.3	6.3	.3	2.2	.0	69.5
06009	8.0	1.9	2.5	.0	.0	.0	.0	12.4	6.4	.6	3.2	.3	1.3	.0	76.1
12015	9.0	4.9	2.6	.0	.0	.0	.3	16.8	4.3	.6	6.1	.0	1.4	.0	70.8
18021	9.5	2.6	3.2	.0	.0	.0	.0	17.2	3.2	.3	3.7	.3	2.3	.0	73.0
TOT PCT TOT OBS: 1379	9.2	3.3	3.6	.0	.0	.0	.1	16.3	4.1	.4	4.9	.2	1.8	.0	72.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	6.0	6.7	1.4	.0	.1	14.5	13.0	16.7	13.7	17.8	17.3	14.4	12.0	12.0	8.3		
NE	.4	3.3	3.0	.3	.0	.0	7.1	11.2	5.8	9.7	5.5	7.3	6.7	8.9	8.3	9.4		
E	.6	3.1	1.7	.1	.0	.0	5.6	9.8	4.6	5.6	5.8	4.5	6.2	5.3	7.3	2.3		
SE	.7	4.9	4.4	1.5	.4	.1	12.0	14.0	10.1	14.1	10.0	15.5	12.7	6.2	15.7	11.8		
S	.6	5.0	12.6	6.7	1.8	.1	26.7	18.2	27.4	25.4	26.1	21.8	26.0	26.7	26.3	31.6		
SW	.2	2.3	5.1	2.2	.5	.1	10.4	17.5	10.1	8.9	12.5	10.0	9.1	13.0	7.5	16.0		
W	.2	3.2	3.7	.9	.2	.1	8.2	14.1	9.2	4.8	7.7	4.5	7.6	11.6	7.8	10.2		
NW	.4	4.4	4.3	1.4	.2	.0	10.7	13.5	11.2	12.9	8.6	17.3	10.2	14.7	10.2	9.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.8						4.8	.0	4.9	4.8	6.0	1.8	7.2	1.4	4.4	.8		
TOT OBS	120	506	653	226	48	6	1569			347	62	281	33	321	73	297	133	
TOT PCT	8.3	32.2	41.6	14.4	3.1	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.2	8.4	3.4	.4	.1		14.5	13.0	16.3	17.7	14.0	10.9		
NE	2.1	3.6	1.4	.0	.0		7.1	11.2	6.4	5.8	7.1	8.8		
E	1.7	3.3	.6	.0	.0		5.6	9.8	4.8	5.6	6.0	5.9		
SE	2.9	5.6	2.2	1.1	.2		12.0	14.0	10.7	10.9	11.5	14.5		
S	2.3	10.3	10.0	3.4	.6		26.7	18.2	27.1	25.4	26.1	28.0		
SW	.9	4.4	3.8	1.1	.2		10.4	17.5	9.9	12.1	9.8	10.1		
W	1.3	4.4	1.9	.3	.1		8.2	14.1	8.6	7.1	8.3	8.5		
NW	2.1	5.3	2.7	.4	.0		10.7	13.5	11.4	10.0	11.0	10.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.8						4.8	.0	4.9	5.4	6.1	3.3		
TOT OBS	317	716	407	111	18	1569		14.2	409	336	394	430		
TOT PCT	20.2	45.6	25.9	7.1	1.1		100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1877-1972AREA 0039 NEWPORT
44.7N 123.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.9	3.4	29.6	44.3	14.4	3.2	.2	14.4	100.0	409
06009	5.4	3.3	31.5	42.9	15.5	1.2	.3	13.8	100.0	336
12015	6.1	3.8	34.8	38.8	11.9	4.6	.0	13.8	100.0	394
18021	3.3	3.3	33.0	40.7	15.8	3.0	.9	14.7	100.0	430
TOT	76	54	306	653	226	48	6	14.2		1569
PCT	4.8	3.4	22.2	41.6	14.4	3.1	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	2.5	4.3	3.2		4.2
NE	3.0	1.1	1.5	1.0		3.5
E	1.9	1.2	1.5	1.4		4.4
SE	1.3	1.2	3.8	5.6		6.1
S	1.9	1.3	4.7	18.6		7.0
SW	1.3	.5	2.9	4.7		6.3
W	1.4	1.2	2.4	3.3		5.3
NW	1.0	1.4	5.3	1.9		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.7	1.6	1.2		4.3
TOT OBS	191	126	288	417	1022	5.8
TOT PCT	18.7	12.3	28.2	40.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.2	.2	.8	1.6	2.4	.4	.0	.0	.3	9.0	
NE	.3	.1	.1	.2	.5	.5	.3	.0	.0	.0	4.8	
E	.1	.0	.0	.3	.5	.5	.5	.0	.2	.1	3.8	
SE	.3	.4	.4	1.1	1.9	2.4	.2	.0	.4	.1	4.7	
S	2.0	.7	2.5	4.3	5.3	4.9	1.2	.1	.3	.0	5.1	
SW	.3	.0	.6	1.3	2.1	1.6	.3	.1	.1	.0	2.7	
W	.0	.2	.2	.5	1.4	2.1	.3	.0	.0	.0	3.7	
NW	.1	.0	.2	.8	2.0	2.2	.6	.0	.0	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.1	.0	.2	.9	.2	.0	.3	.1	3.4	
TOT OBS	42	16	45	98	158	179	41	2	15	6	420	1022
TOT PCT	4.1	1.6	4.4	9.6	15.5	17.5	4.0	.2	1.5	.6	41.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3000	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>2500	5.0	5.9	6.1	6.2	6.2	6.2	6.2	6.2
>2000	18.0	22.4	23.4	23.8	23.9	23.9	23.9	23.9
>1000	27.2	36.4	38.3	39.1	39.4	39.5	39.5	39.5
>600	31.4	43.6	47.1	48.5	48.8	48.9	48.9	48.9
>300	32.4	46.2	50.9	52.7	53.0	53.1	53.2	53.2
>150	32.5	46.9	52.0	54.1	54.3	54.6	54.7	54.7
>0	32.6	47.4	53.2	55.5	56.8	57.7	58.8	58.8
TOTAL	335	487	547	571	584	593	604	604

TOTAL NUMBER OF OBS: 1028

PCT FREQ NM <5/8: 41.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.6	6.7	8.7	8.9	4.8	5.5	8.9	9.3	32.0	3.7	1073

NOVEMBER

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1877-1972

TABLE 8

AREA 0039 NEWPORT
44.7N 125.0WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	NO PCP	.1	.1	.0	.0	.8	.2	.0	.1	.0	.5	1.8	
	TOT %	.1	.1	.0	.1	1.0	.3	.0	.1	.0	.5	2.1	
1/2<1	PCP	.1	.0	.0	.3	.3	.3	.0	.0	.0	.0	1.0	
	NO PCP	.1	.0	.0	.2	.6	.1	.2	.2	.0	.0	1.4	
	TOT %	.2	.0	.0	.4	.9	.4	.2	.2	.0	.0	2.4	
1<2	PCP	.1	.0	.0	.2	1.0	.2	.3	.1	.0	.0	1.9	
	NO PCP	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.4	
	TOT %	.1	.1	.1	.2	1.1	.2	.3	.1	.0	.1	2.3	
2<5	PCP	.1	.1	.1	.3	1.9	.7	.4	.1	.0	.0	3.5	
	NO PCP	.1	.2	.1	.1	.8	.3	.2	.1	.0	.1	2.1	
	TOT %	.2	.2	.2	.4	2.7	.9	.7	.2	.0	.1	5.6	
5<10	PCP	.1	.1	.1	.7	3.5	1.0	.4	.7	.0	.1	7.0	
	NO PCP	2.2	1.0	1.0	1.8	6.1	2.2	1.7	3.2	.0	.2	19.4	
	TOT %	2.3	1.1	1.1	2.5	9.6	3.3	2.1	4.0	.0	.4	26.4	
10+	PCP	.1	.0	.1	.5	.9	.2	.3	.0	.0	.0	2.4	
	NO PCP	11.9	5.1	4.3	7.2	10.9	4.8	4.8	6.0	.0	3.8	58.9	
	TOT %	11.9	5.1	4.4	7.7	11.8	5.1	5.1	6.3	.0	3.8	61.2	
TOT OBS													1354
TOT PCT		14.8	6.6	5.9	11.3	27.1	10.1	8.4	10.9	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.5	.6	
	4-10	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.6	
	11-21	.1	.0	.0	.0	.5	.1	.0	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.0	.1	1.0	.3	.0	.1	.0	.5	2.1	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
	4-10	.1	.0	.0	.0	.3	.1	.1	.2	.0	.0	.7	
	11-21	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.2	.3	.2	.1	.0	.0	.0	.9	
	TOT %	.2	.0	.0	.4	.8	.4	.2	.2	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.1	.1	.5	.2	.3	.0	.0	.0	1.2	
	22+	.0	.0	.0	.1	.5	.0	.0	.1	.0	.0	.6	
	TOT %	.1	.1	.1	.2	1.1	.2	.3	.1	.0	.1	2.2	
2<5	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.1	.2	.0	.0	.0	.8	
	11-21	.0	.0	.0	.1	1.6	.6	.3	.1	.0	.0	2.7	
	22+	.1	.1	.0	.2	1.0	.4	.2	.1	.0	.0	2.0	
	TOT %	.2	.2	.2	.4	2.7	1.1	.6	.2	.0	.1	5.7	
5<10	0-3	.0	.1	.0	.1	.2	.0	.1	.2	.0	.3	1.2	
	4-10	.7	.3	.7	1.0	1.4	.8	.5	1.0	.0	.0	6.3	
	11-21	1.2	.5	.3	.9	4.0	1.4	1.2	1.8	.0	.0	11.2	
	22+	.4	.1	.1	.5	3.9	1.1	.2	.7	.0	.0	6.9	
	TOT %	2.3	1.0	1.1	2.5	9.4	3.2	2.0	3.7	.0	.3	25.7	
10+	0-3	.3	.2	.6	.2	.3	.2	.1	.1	.0	3.8	5.8	
	4-10	5.1	2.7	2.5	3.7	3.2	1.4	2.6	3.0	.0	.0	24.3	
	11-21	5.7	2.4	1.5	3.5	6.0	2.7	1.7	2.3	.0	.0	25.7	
	22+	1.0	.2	.1	.6	2.3	.7	.5	.7	.0	.0	6.2	
	TOT %	12.1	5.5	4.6	8.1	11.9	5.0	4.9	6.2	.0	3.8	62.0	
TOT OBS													1443
TOT PCT		14.9	7.0	6.0	11.6	27.0	10.1	8.0	10.5	.0	4.9	100.0	

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TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	6.3	1.1	3.7	10.0	19.6	16.6	4.4	.4	1.3	1.1	64.6	35.4	271
06009	4.0	1.2	6.0	8.5	11.7	13.7	2.4	.0	2.0	.4	52.0	48.0	248
12015	2.8	2.0	2.0	7.7	14.6	20.7	5.3	.0	1.6	.8	57.7	42.3	246
18021	2.9	1.8	3.4	11.3	15.1	16.8	3.6	.4	.7	.0	58.1	41.9	279
TOT	42	16	45	99	160	182	41	2	15	6	608	436	1044
PCT	4.0	1.5	4.3	9.5	15.3	17.6	3.9	.2	1.4	.6	58.2	41.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.8	3.5	2.3	6.3	24.6	60.6	398
06009	1.8	1.2	2.1	4.6	23.2	67.1	328
12015	2.1	2.9	2.1	5.8	33.0	54.1	379
18021	1.9	1.1	2.2	5.8	22.7	66.2	361
TOT	32	33	32	83	381	905	1466
PCT	2.2	2.3	2.2	5.7	26.0	61.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	6.4	12.9	26.5	39.8	33.7	264
06009	4.1	11.5	22.5	30.7	46.7	244
12015	2.9	7.3	18.8	40.4	40.8	245
18021	2.9	10.2	24.4	34.5	41.1	275
TOT	42	108	238	374	416	1028
PCT	4.1	10.5	23.2	36.4	40.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.1	.4	.1	.3	.1	.1	.0	9	1.1
60/64	.0	.0	.0	.1	.5	.6	.9	.3	19	2.4
55/59	.0	.1	.1	.3	3.0	6.3	11.6	9.6	246	31.1
50/54	.0	.0	.1	1.3	7.3	10.6	21.3	15.9	450	56.8
45/49	.0	.0	.1	.4	.6	3.0	2.7	1.1	63	8.0
40/44	.0	.0	.0	.0	.1	.1	.4	.0	5	.6
TOTAL	0	2	6	19	94	163	293	213	792	100.0
PCT	.0	.3	.8	2.4	11.9	20.8	37.0	26.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.1	.1	.3	.1	.1	.0	.1	.0	.0
.3	.2	.5	.4	.3	.3	.1	.0	.0	.0
3.2	2.2	2.7	3.4	12.4	4.3	1.6	.6	.0	.8
9.6	4.2	3.3	6.9	13.1	5.7	3.4	6.0	.0	2.5
1.2	.4	.1	1.4	1.6	.8	.8	1.2	.0	.5
.0	.3	.1	.2	.1	.0	.0	.0	.0	.0
14.6	7.4	6.8	12.5	27.8	11.1	7.9	8.0	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	64	59	53	49	46	39	53.3	411
06009	65	60	57	52	48	43	38	52.6	340
12015	63	61	57	53	48	44	39	52.3	403
18021	69	66	60	54	49	44	41	53.7	429
TOT	69	62	58	53	49	44	38	53.1	1583

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.2	12.8	23.7	31.3	27.0	81	211
06009	.0	1.6	11.7	24.3	40.4	21.8	82	188
12015	.0	2.1	8.9	16.7	40.1	32.3	84	192
18021	.0	4.3	13.8	19.0	36.7	26.2	81	210
TOT	0	27	95	168	296	215	62	801

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.2	.2	6	.0	.5
9/10	.0	.0	.0	.1	.0	.1	.2	.0	4	.0	.3
7/8	.0	.0	.0	.3	.4	.9	.1	.0	21	.0	1.7
6	.0	.0	.0	.2	.6	.1	.0	.0	10	.2	.6
5	.0	.0	.0	.8	.4	.2	.0	.0	18	.1	1.3
4	.0	.0	.3	.6	1.3	.1	.0	.0	29	.2	2.1
3	.0	.1	.2	1.3	2.2	.0	.0	.0	47	.5	3.2
2	.0	.1	.5	3.9	1.4	.0	.0	.0	74	.2	5.6
1	.0	.0	1.7	7.4	2.7	.0	.0	.0	149	.9	10.9
0	.0	.0	4.7	9.1	1.1	.0	.0	.0	188	.6	14.3
-1	.0	.1	3.9	10.2	.6	.0	.0	.0	187	.3	14.5
-2	.0	.2	6.8	5.7	.2	.0	.0	.0	163	.6	12.3
-3	.0	.5	7.0	4.0	.1	.0	.0	.0	145	.6	10.9
-4	.0	.6	5.0	1.5	.0	.0	.0	.0	89	.3	6.7
-5	.0	.8	4.0	.2	.2	.0	.0	.0	65	.1	5.1
-6	.1	.5	1.3	.1	.0	.0	.0	.0	25	.1	1.9
-7/-8	.2	1.0	1.3	.1	.0	.0	.0	.0	34	.0	2.7
-9/-10	.2	.2	.1	.0	.0	.0	.0	.0	6	.0	.5
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	6	50	465	572	143	17	7	2	1262	59	1203
PCT	.5	4.0	36.8	45.3	11.3	1.3	.6	.2	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4	.3	.6	.0	.0	.0	.0	.9
1-2	.1	2.2	1.5	.0	.0	.0	3.9	.1	1.2	1.0	.0	.0	.0	2.3
3-4	.0	1.4	1.9	.1	.0	.0	3.4	.0	.6	1.3	.0	.0	.0	1.9
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.0	.5	.2	.0	.0	.7
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.1	.1	.0	.0	.4
8-9	.0	.1	1.0	.3	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.5	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.0	6.9	1.8	.0	.0	14.2	.3	2.5	3.1	.3	.0	.0	6.2

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.0	.0	.0	.0	1.4	.2	1.2	.0	.0	.0	.0	1.4
1-2	.1	1.8	.8	.0	.0	.0	2.6	.3	2.1	1.1	.0	.0	.0	3.5
3-4	.3	.1	.9	.1	.0	.0	1.4	.0	.7	1.9	.1	.0	.0	2.7
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.6	2.0	.0	.0	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.8	2.0	.1	.1	.0	5.9	.3	4.5	5.7	.6	.2	.0	11.6

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.3	.0	.0	.0	.0	1.7	.1	.3	.0	.0	.0	.0	.4
1-2	.0	2.2	1.8	.0	.0	.0	3.9	.0	.7	.2	.0	.0	.0	.8
3-4	.0	1.0	4.8	.4	.0	.0	6.2	.0	.6	2.0	.2	.0	.0	2.8
5-6	.0	.4	4.0	.8	.3	.0	5.4	.0	.3	1.1	.3	.0	.0	1.7
7	.0	.0	2.9	1.6	.0	.0	4.5	.0	.1	.7	.0	.0	.0	.8
8-9	.0	.0	2.1	.7	.4	.0	3.1	.0	.0	.4	.7	.0	.0	1.1
10-11	.0	.0	.3	2.0	.0	.0	2.2	.0	.0	.3	.1	.0	.0	.4
12	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.1	.4	.4	.0	.9	.0	.0	.4	.3	.0	.0	.7
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.0	15.9	6.1	1.5	.0	28.8	.1	2.0	5.0	2.0	.1	.0	9.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.1	.9	.0	.0	.0	.0	1.1	
1-2	.0	2.6	.6	.0	.0	.0	3.2	.0	2.8	.8	.0	.0	.0	3.6	
3-4	.0	.6	.6	.2	.0	.0	1.5	.0	.7	1.3	.3	.0	.0	2.3	
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.1	.7	.0	.0	.0	.8	
7	.0	.3	.4	.0	.0	.0	.7	.0	.3	.5	.0	.0	.0	.8	
8-9	.0	.1	.4	.1	.0	.0	.7	.0	.0	.1	.3	.0	.0	.4	
10-11	.0	.0	.4	.2	.0	.0	.7	.0	.0	.1	.3	.0	.0	.5	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.9	3.5	.6	.0	.0	8.0	.1	4.8	3.6	1.2	.0	.0	9.7	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	6.4	.0	.0	.0	.0	15.1	
1-2	.5	15.4	7.8	.0	.0	.0	23.7	
3-4	.3	5.8	14.5	1.5	.0	.0	22.1	
5-6	.0	1.6	11.4	1.6	.3	.0	15.0	
7	.0	.8	5.2	2.5	.1	.0	8.6	
8-9	.0	.3	4.5	2.2	.4	.0	7.4	
10-11	.0	.0	1.4	3.2	.0	.0	4.5	
12	.0	.0	.1	.8	.3	.0	1.2	
13-16	.0	.0	.5	.8	.4	.0	1.8	
17-19	.0	.0	.0	.1	.4	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	30.3	45.5	12.8	1.9	.0	100.0	729

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	4.5	7.1	6.4	3.9	2.5	2.8	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	304	5
6-7	.0	.8	3.6	6.4	5.7	3.8	1.5	1.3	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	280	7
8-9	.0	.6	3.0	4.4	5.5	4.3	2.8	1.1	.8	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	248	7
10-11	.0	.0	1.1	2.2	2.4	2.0	1.3	.5	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	113	8
12-13	.0	.0	.6	.3	.5	.4	.3	.7	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	31	8
>13	.0	.0	.0	.0	.0	.4	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	11
INDET	1.5	.5	.9	1.7	.9	.4	.6	.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	83	6
TOTAL	25	66	173	224	198	144	101	51	49	14	5	4	0	0	0	0	0	0	0	1034	7
PCT	2.4	6.3	16.4	21.3	18.8	13.7	9.6	4.8	4.6	1.3	.5	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1862-1972

TABLE 1

AREA 0039 NEWPCRT
44.8N 125.0W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.0	1.8	2.8	.0	.0	.0	.0	5.6	1.0	.0	3.8	.0	1.0	.0	88.5
NE	3.5	1.4	5.3	.0	.0	.0	.0	9.2	.0	.0	3.1	.0	.0	.0	87.7
E	1.9	1.4	.0	.0	.0	.0	.0	3.4	.0	.0	8.7	.0	1.9	.0	86.0
SE	15.0	4.5	7.2	.0	.0	.0	.0	26.0	2.4	1.0	7.1	.0	.0	.0	84.6
S	16.9	4.3	8.4	.0	.0	.0	.0	27.8	8.6	.0	7.6	.0	.9	.4	54.6
SW	12.8	4.7	7.9	.0	.0	.0	.8	25.7	9.9	.6	7.6	.0	1.0	.0	55.2
W	4.5	7.4	11.4	.0	.0	.0	.8	23.1	7.7	.0	8.8	.0	.0	.0	60.5
NW	2.9	2.2	3.2	.0	.0	.0	1.0	10.3	2.5	.0	2.0	.0	1.0	.0	84.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	6.3	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	93.8
TOT PCT	9.6	3.8	7.1	.0	.0	.0	.3	19.7	5.5	.2	6.3	.0	.8	.1	67.5
TOT OBS:	933														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	8.3	3.5	4.3	.0	.0	.0	.8	16.5	6.7	.4	9.1	.0	1.6	.0	66.1
06009	10.2	4.9	7.1	.0	.0	.0	.0	22.1	4.0	.4	5.8	.0	.0	.0	67.7
12015	12.4	4.0	9.7	.0	.0	.0	.4	23.9	3.5	.0	3.5	.0	.9	.4	67.7
18021	7.5	2.5	7.1	.0	.0	.0	.0	15.9	7.3	.0	6.3	.0	.4	.0	69.9
TOT PCT	9.5	3.7	7.0	.0	.0	.0	.3	19.5	5.5	.2	6.2	.0	.7	.1	67.8
TOT OBS:	945														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	4.1	4.3	.4	.2	.0		9.2	12.8		8.1	14.8	12.7	11.7	8.6	4.7	9.9	6.1
NE	.4	2.4	2.7	.4	.0	.0		5.9	12.2		7.1	10.2	7.2	7.4	4.4	3.2	5.3	4.8
E	.4	2.9	2.0	.8	.1	.0		6.1	12.3		4.4	6.6	6.1	9.6	7.6	8.9	3.1	8.3
SE	.4	4.1	5.2	1.2	.9	.2		12.0	16.1		7.3	12.8	8.4	12.8	16.7	21.2	9.5	15.8
S	.8	4.3	10.9	6.5	4.3	.8		27.6	21.7		27.4	23.5	28.9	19.1	27.4	30.7	32.2	22.9
SW	.8	2.8	7.3	4.4	1.3	.1		16.0	19.6		22.1	9.2	17.5	9.6	16.5	14.6	13.2	11.9
W	.2	3.2	5.2	1.7	.5	.2		10.8	16.6		11.7	7.1	10.2	13.3	7.0	7.3	14.5	12.9
NW	.3	3.4	4.7	1.3	.9	.8		10.7	16.7		10.8	13.8	7.6	14.4	9.0	9.5	10.5	15.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.2	2.0	1.5	2.1	2.8	.0	2.0	1.9
TOT OBS	53	325	508	201	98	16	1201		17.2		244	49	206	47	217	79	202	157
TOT PCT	4.4	27.1	42.3	16.7	8.2	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	15
N	1.2	6.0	1.7	.2	.1			9.2	12.8	9.2	12.5	7.6
NE	.9	3.5	1.4	.1	.0			5.9	12.2	7.6	7.2	4.1
E	1.7	3.1	1.0	.4	.0			6.1	12.3	4.8	6.7	7.9
SE	1.7	5.6	2.8	1.3	.5			12.0	16.1	8.2	9.2	17.9
S	2.0	8.7	8.6	6.5	1.9			27.6	21.7	26.7	27.1	28.3
SW	1.0	5.5	6.0	3.0	.3			16.0	19.6	20.0	16.0	16.0
W	1.0	5.1	3.1	1.4	.2			10.8	16.6	10.9	10.8	7.1
NW	1.1	5.1	2.7	1.4	.4			10.7	16.7	11.3	8.9	9.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	1.7							1.7	.0	1.4	1.6	2.0
TOT OBS	151	511	327	171	41	1201		17.2		293	253	296
TOT PCT	12.6	42.5	27.2	14.2	3.4			100.0		100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1862-1972

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44.8N 125.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.4	2.4	23.9	46.4	16.0	8.2	1.7	17.6	100.0	293
0600	1.6	3.2	30.0	41.9	15.0	7.9	.4	16.3	100.0	253
1200	2.0	1.4	31.4	42.9	15.5	6.1	.7	16.4	100.0	296
1800	1.9	3.6	24.0	38.7	19.5	10.0	2.2	18.4	100.0	359
TOT	21	32	325	508	201	98	16	17.2		1201
PCT	1.7	2.7	27.1	42.3	16.7	8.2	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.4	5.0	2.1		5.3
NE	3.6	.2	.9	1.0		2.9
E	3.3	.7	.6	.8		2.6
SE	1.7	1.1	1.3	4.4		5.7
S	1.7	1.4	6.1	18.0		7.0
SW	1.4	2.0	5.7	8.0		6.3
W	1.0	2.0	3.9	5.6		6.2
NW	1.0	.8	4.8	4.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	1.1	.6		5.2
TOT OBS	96	68	186	281	631	5.9
TOT PCT	15.2	10.8	29.5	44.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.2	1.0	3.0	1.3	.3	.0	.0	.2	4.7	
NE	.0	.0	.5	.2	.7	.2	.0	.0	.0	.0	4.2	
E	.0	.0	.2	.2	.1	.2	.0	.0	.0	.0	4.6	
SE	.4	.5	.2	.8	1.7	.4	.3	.0	.0	.1	4.3	
S	2.3	1.2	2.4	5.0	7.0	2.9	.8	.3	.0	.4	5.0	
SW	.4	.7	1.0	3.6	3.9	1.7	.3	.0	.0	.0	5.4	
W	.5	.0	1.0	1.8	3.4	.9	.3	.0	.0	.0	4.6	
NW	.0	.0	.3	1.5	4.2	1.1	.0	.2	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.3	.2	.3	.0	.0	.0	1.4	
TOT OBS	24	15	36	88	150	58	16	2	1	4	237	631
TOT PCT	3.8	2.4	5.7	13.9	23.8	9.2	2.5	.3	.2	.6	37.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.5	.8	.8	.8	.8	.8	.8	.8
>3000	.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2500	2.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>2000	8.8	11.8	12.8	12.9	12.9	12.9	12.9	12.9
>1000	24.1	32.6	35.4	36.2	37.0	37.2	37.2	37.2
>600	30.9	44.3	48.7	49.6	50.6	50.7	50.7	50.7
>300	32.0	47.1	53.5	54.8	56.2	56.4	56.4	56.4
>150	32.1	48.7	55.7	57.0	58.6	58.7	58.7	58.7
>0	32.1	49.4	57.2	58.6	60.5	61.7	62.0	62.5
TOTAL	204	314	363	372	384	392	394	397

TOTAL NUMBER OF OBS: 635

PCT FREQ NH <5/8: 37.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	7.0	5.4	9.1	8.2	6.9	5.1	10.0	9.4	35.8	3.1	682

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1862-1972

DECEMBER

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44.8N 125.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	.4	
	NO PCP	.2	.1	.4	.1	.9	.3	.1	.0	.0	.0	2.0	
	TOT %	.2	.3	.4	.1	1.0	.3	.1	.0	.0	.1	2.5	
1/2<1	PCP	.0	.0	.0	.3	.8	.1	.0	.0	.0	.0	1.2	
	NO PCP	.1	.0	.0	.1	.8	.2	.2	.0	.0	.0	1.4	
	TOT %	.1	.0	.0	.4	1.6	.3	.2	.0	.0	.0	2.6	
1<2	PCP	.0	.1	.0	.1	.8	.3	.3	.0	.0	.0	1.6	
	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.0	.1	1.0	.4	.3	.0	.0	.0	1.9	
2<5	PCP	.1	.1	.1	.5	2.3	.7	.7	.3	.0	.0	5.0	
	NO PCP	.2	.1	.2	.3	.8	1.3	.5	.2	.0	.0	3.8	
	TOT %	.3	.3	.3	.9	3.3	2.0	1.2	.5	.0	.0	8.7	
5<10	PCP	.2	.1	.1	1.3	3.0	2.6	.7	.4	.0	.0	8.5	
	NO PCP	1.8	1.4	.9	2.8	6.7	3.3	1.6	3.3	.0	.0	21.9	
	TOT %	2.0	1.5	1.0	4.1	9.7	5.9	2.3	3.8	.0	.0	30.4	
10+	PCP	.3	.0	.0	.4	.7	.6	.6	.4	.0	.0	3.1	
	NO PCP	7.6	4.0	3.9	4.2	10.9	7.0	5.4	6.2	.0	1.6	30.8	
	TOT %	7.9	4.0	3.9	4.7	11.6	7.6	6.1	6.7	.0	1.6	33.9	
TOT OBS													
TOT PCT													
		10.5	6.1	5.6	10.3	28.2	16.3	10.1	11.0	.0	1.7	100.0	929

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.1	.0	.0	.1	.4	
	4-10	.1	.2	.3	.1	.0	.0	.1	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.3	
	22+	.1	.0	.0	.0	.4	.1	.0	.0	.0	.0	.7	
	TOT %	.2	.2	.3	.1	.9	.3	.2	.0	.0	.1	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.2	.3	.1	.1	.0	.0	.0	1.1	
	11-21	.0	.0	.1	.0	.5	.1	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.1	.6	.1	.0	.0	.0	.0	.8	
	TOT %	.2	.0	.1	.3	1.5	.3	.1	.0	.0	.0	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.0	.1	.3	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.2	.8	.2	.0	.0	.0	.0	1.1	
	TOT %	.0	.1	.0	.3	1.2	.4	.3	.0	.0	.0	2.2	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.0	.3	.2	.2	.0	.0	.0	1.1	
	11-21	.1	.2	.1	.2	.7	.6	.5	.1	.0	.0	2.6	
	22+	.0	.0	.0	.6	3.0	1.3	.4	.1	.0	.0	5.3	
	TOT %	.2	.3	.3	.8	3.9	2.1	1.1	.5	.0	.0	9.2	
5<10	0-3	.1	.2	.1	.2	.1	.0	.0	.0	.0	.0	.8	
	4-10	.7	.5	.4	1.2	1.1	.6	.5	1.2	.0	.0	6.2	
	11-21	.9	.4	.4	1.8	3.8	2.9	1.4	1.4	.0	.0	12.9	
	22+	.1	.2	.2	.8	4.7	2.3	.4	.9	.0	.0	7.7	
	TOT %	1.8	1.3	1.1	4.0	9.7	5.8	2.3	3.5	.0	.0	19.6	
10+	0-3	.1	.1	.0	.1	.5	.0	.0	.2	.0	1.5	2.6	
	4-10	3.4	1.6	2.0	2.2	2.9	1.6	2.1	1.8	.0	.0	17.7	
	11-21	3.7	2.0	1.5	2.7	5.4	3.7	3.6	3.4	.0	.0	28.0	
	22+	.4	.2	.6	.1	2.4	2.1	1.1	.8	.0	.0	7.9	
	TOT %	7.6	4.0	4.2	5.1	11.2	7.4	6.8	6.2	.0	1.5	34.2	
TOT OBS													
TOT PCT													
		10.1	6.0	6.0	10.7	28.3	16.3	10.8	10.2	.0	1.6	100.0	1047

DECEMBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1862-1972

TABLE 10

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.1	4.0	5.7	14.9	25.1	10.9	1.7	.0	.0	1.1	68.6	31.4	175
06009	3.6	.6	8.4	15.0	24.0	7.2	3.0	.0	.0	.0	61.7	38.3	167
12015	1.5	3.0	4.5	11.2	23.1	8.2	3.7	.0	.7	1.5	57.5	42.5	134
18021	4.0	1.7	3.4	12.6	22.3	10.3	2.3	1.1	.0	.0	57.7	42.3	175
TOT	24	15	36	88	154	60	17	2	1	4	401	250	651
PCT	3.7	2.3	5.5	13.5	23.7	9.2	2.6	.3	.2	.6	61.6	38.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	3.9	2.9	2.1	9.3	32.5	49.3	280
06009	.8	2.5	1.2	10.7	25.8	59.0	244
12015	1.5	2.6	1.5	7.0	33.8	53.7	272
18021	2.7	2.3	5.8	9.5	24.7	57.0	263
TOT	24	27	23	96	311	578	1059
PCT	2.3	2.5	2.2	9.1	29.4	54.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.2	15.6	32.9	36.4	30.6	175
06009	3.7	13.6	35.2	28.4	30.4	162
12015	1.6	10.9	25.6	33.3	41.1	129
18021	4.1	11.1	26.9	32.2	40.9	171
TOT	24	82	193	207	235	635
PCT	3.8	12.9	30.4	32.6	37.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
60/64	.0	.0	.0	.2	.3	.2	.0	.0	4	.6
55/59	.2	.2	.2	.0	.6	1.4	4.2	3.1	63	9.9
50/54	.0	.2	.3	.5	4.6	6.4	18.2	18.2	308	48.4
45/49	.0	.0	.0	1.7	4.2	10.2	9.4	5.8	200	31.4
40/44	.0	.2	.5	.5	1.6	2.8	1.4	.5	47	7.4
35/39	.0	.0	.0	.2	.2	.2	.3	.5	8	1.3
30/34	.0	.0	.0	.3	.0	.0	.3	.2	5	.8
25/29	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	1	3	7	21	73	135	216	181	637	100.0
PCT	.2	.5	1.1	3.3	11.5	21.2	33.9	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.4	.0	.0	.2	.0	.0
.3	.1	.4	1.0	4.6	2.7	.5	.2	.0	.2
3.1	1.6	2.1	5.6	19.8	8.9	4.0	3.1	.0	.2
5.1	3.1	1.3	2.5	5.1	4.4	4.2	5.1	.0	.6
1.5	1.2	1.0	.6	.3	.8	.9	1.0	.0	.0
.2	.3	.0	.0	.0	.0	.2	.6	.0	.0
.0	.3	.4	.2	.0	.0	.0	.0	.0	.0
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
10.4	6.6	9.2	10.0	30.2	16.9	9.7	10.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	59	55	50	42	34	31	49.6	294
06009	60	58	55	50	42	36	32	49.3	253
12015	59	58	54	50	41	32	28	48.8	299
18021	65	59	56	50	42	34	28	49.7	361
TOT	65	59	55	50	42	33	28	49.4	1207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.6	13.9	22.9	31.3	25.3	80	166
06009	.0	3.7	11.6	19.5	37.2	28.0	82	164
12015	.0	2.6	11.0	18.8	34.4	33.1	83	154
18021	.6	7.5	9.4	23.1	32.5	26.9	81	160
TOT	1	33	74	136	218	182	81	644

DECEMBER

PERIOD: (PRIMARY) 1926-1972
(OVER-ALL) 1862-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	24	29	33	37	41	45	49	53	57	61	65	TOT	N	NO
	28	32	36	40	44	48	52	56	60	64	68		FOG	FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	4	.1	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	4	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.1	.0	.9	.0	.0	9	.0	1.0
6	.0	.0	.0	.0	.0	.0	.1	.0	.5	.0	.0	5	.1	.5
5	.0	.0	.0	.0	.0	.1	.5	.7	.6	.0	.0	16	.0	1.9
4	.0	.0	.0	.0	.0	.0	.2	2.4	.5	.0	.0	27	.1	3.0
3	.0	.0	.0	.0	.0	.1	.2	2.0	.5	.0	.0	24	.2	2.5
2	.0	.0	.0	.0	.0	.2	3.7	2.3	.2	.1	.0	57	.7	5.9
1	.0	.0	.0	.0	.0	.2	3.1	3.7	.2	.0	.0	63	1.0	6.3
0	.0	.0	.0	.0	.0	.8	6.8	2.9	.1	.0	.0	92	.6	10.1
-1	.0	.0	.0	.0	.0	1.2	7.3	3.5	.0	.0	.0	103	.7	11.2
-2	.0	.0	.0	.0	.1	2.4	7.9	.3	.0	.0	.0	93	.5	10.3
-3	.0	.0	.0	.0	.1	2.7	5.4	.2	.0	.0	.0	73	.6	7.9
-4	.0	.0	.0	.0	.1	5.9	3.4	.0	.0	.0	.0	81	.5	8.9
-5	.0	.0	.0	.1	1.0	5.2	1.4	.0	.1	.0	.0	68	1.2	6.7
-6	.0	.0	.0	.0	.7	2.8	.8	.0	.0	.0	.0	37	.1	4.2
-7/-8	.0	.0	.0	.1	2.5	3.7	.3	.0	.0	.0	.0	58	.1	6.6
-9/-10	.0	.0	.0	.6	.9	1.3	.1	.0	.0	.0	.0	25	.1	2.8
-11/-13	.0	.0	.1	.6	.6	.3	.0	.0	.0	.0	.0	14	.1	1.5
-14/-16	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.3
-17/-19	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	7	4	4	53	358	33	33	1				863	58	805
PCT	.2	.5	.5	1.4	6.1	27.1	41.5	18.3	3.8	.5	.1	100.0	6.7	93.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.6	.0	.0	.0	3.4	.0	.6	.4	.0	.0	.0	1.0
3-4	.0	.6	1.9	.0	.0	.0	2.5	.0	.2	1.9	.2	.0	.0	2.3
5-6	.0	.2	1.3	.0	.0	.0	1.7	.0	.2	.4	.0	.0	.0	.6
7	.0	.2	.2	.2	.0	.0	.6	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.6	.2	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.2	3.1	.4	.2	.0	10.1	.0	1.1	3.1	.5	.0	.0	4.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	1.0	.0	.0	.0	2.1	.0	1.0	1.4	.0	.0	.0	2.4
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.1	1.2	.3	.0	.0	1.6
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.4	1.1	.1	.0	.0	1.6
7	.0	.2	.2	.4	.0	.0	.8	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.3	.2	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.4	.8	.0	.0	4.6	.0	1.3	4.6	.8	.5	.0	7.5

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

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44.8N 125.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	.0	.0	.0	.0	.0		1.7	.0	.3	.0	.0	.0	.0		.3
1-2	.0	.4	1.1	.0	.0	.0		1.5	.0	1.3	.9	.0	.0	.0		2.2
3-4	.0	1.3	3.9	.3	.0	.0		5.6	.0	.6	2.0	.1	.0	.0		2.6
5-6	.0	.7	5.6	.8	.0	.0		7.1	.0	.2	2.1	1.2	.0	.0		3.5
7	.0	.2	1.4	3.2	.8	.0		5.7	.0	.0	1.6	1.0	.1	.0		2.7
8-9	.0	.0	1.0	1.1	.8	.0		2.9	.0	.0	1.6	.9	.3	.0		2.8
10-11	.0	.0	1.1	.6	1.1	.0		2.7	.0	.0	.7	.6	.2	.0		1.5
12	.0	.0	.2	.7	.4	.0		1.2	.0	.0	.3	1.0	.3	.0		1.6
13-16	.0	.0	.0	1.1	.6	.0		1.7	.0	.0	.0	.5	.7	.0		1.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2
20-22	.0	.0	.0	.0	.6	.2		.8	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	2.6	14.3	7.8	4.6	.2		30.2	.0	2.9	9.2	5.4	1.7	.0		18.8

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	2.1	.0	.0	.0	.0		2.4	.1	.3	.2	.0	.0	.0		.6	
1-2	.0	.6	1.0	.0	.0	.0		1.5	.0	1.8	.0	.0	.0	.0		2.3	
3-4	.0	.2	1.5	.2	.0	.0		1.9	.0	.5	.7	.2	.0	.0		1.5	
5-6	.0	.4	1.4	.2	.0	.0		2.0	.0	.3	1.1	.0	.0	.0		1.3	
7	.0	.0	.6	.0	.0	.0		.6	.0	.1	.2	.2	.0	.0		.5	
8-9	.0	.2	.8	.2	.0	.0		1.2	.0	.0	.7	.4	.0	.0		1.2	
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.7	.2	.2	.0		1.1	
12	.0	.0	.4	.2	.0	.0		.6	.0	.0	.0	.2	.2	.0		.4	
13-16	.0	.0	.0	.4	.0	.2		.6	.0	.0	.2	.0	.1	.0		.3	
17-19	.0	.0	.0	.0	.4	.0		.4	.0	.0	.4	.0	.0	.0		.4	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.0		.2	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	3.9	5.6	1.5	.4	.2		11.5	.1	2.8	5.2	1.3	.7	.0		10.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.1	.2	.0	.0	.0	7.4	
1-2	.0	9.4	7.2	.0	.0	.0	16.6	
3-4	.0	3.6	13.7	1.3	.0	.0	18.6	
5-6	.0	2.5	13.7	2.2	.0	.0	18.4	
7	.0	.7	5.2	5.4	.9	.0	12.1	
8-9	.0	.2	4.9	3.6	1.3	.0	10.1	
10-11	.0	.0	2.9	1.6	.9	.0	8.1	
12	.0	.0	.9	2.0	.9	.0	3.8	
13-16	.0	.0	.2	2.2	1.8	.2	4.3	
17-19	.0	.0	.4	.2	.4	.0	1.1	
20-22	.0	.0	.0	.0	.7	.2	.9	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	19.5	49.3	18.6	8.1	.4	100.0	466

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	4.1	5.6	4.7	3.5	1.5	.3	1.1	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	5
6-7	.0	.2	2.1	5.3	5.4	4.8	3.5	.9	1.7	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	162	8
8-9	.0	.2	2.1	3.3	3.0	3.8	4.5	3.2	2.0	.6	.1	.2	.3	.0	.0	.0	.0	.0	.0	158	9
10-11	.0	.2	.8	2.1	2.6	3.0	1.7	1.2	1.5	.5	.2	.2	.8	.0	.0	.0	.0	.0	.0	96	10
12-13	.0	.0	.0	.2	.3	1.1	.2	.6	.6	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	26	14
>13	.0	.0	.0	.2	.2	.2	.2	.5	.3	.1	.3	.2	.0	.3	.0	.0	.0	.0	.0	17	16
INDEX	1.5	.5	.6	1.1	.9	1.4	.0	.3	1.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	32	7
TOTAL	17	33	74	111	106	104	66	51	54	14	13	8	11	2	0	0	0	0	0	666	8
PCT	2.6	5.0	11.1	16.7	15.9	15.6	10.2	7.7	8.1	2.1	2.0	1.2	1.7	.3	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1958-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.0	.9	1.5	.0	.2	.0	.5	3.8	1.5	.0	4.3	.1	1.6	.0	88.7
NE	1.2	.6	2.1	.0	.0	.0	.0	3.8	.9	.2	4.0	.2	.9	.1	90.0
E	4.1	1.0	2.9	.0	.1	.0	.0	8.1	1.6	.0	6.1	.0	2.9	.0	81.2
SE	11.4	3.6	6.7	.0	.0	.0	.0	20.9	3.8	.1	6.2	.3	1.4	.0	67.4
S	13.4	4.1	7.5	.0	.0	.0	.0	24.3	5.9	.2	7.8	.4	1.4	.2	59.9
SW	8.7	3.5	6.4	.0	.1	.0	.1	18.6	6.7	.4	6.6	.2	1.2	.1	66.3
W	4.5	3.4	4.4	.0	.1	.0	.4	14.4	6.2	.7	4.1	.3	.7	.1	73.6
NW	2.6	2.6	3.1	.0	.1	.0	.4	8.6	3.5	.2	4.2	.2	1.0	.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	1.2	3.3	.0	.0	.0	.1	6.4	1.1	.0	10.2	.3	1.9	.0	80.2
TOT PCT	5.7	2.6	4.2	.0	.1	.0	.2	12.4	3.7	.2	5.6	.2	1.3	.1	76.5
TOT OBS: 16937															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.4	2.2	3.9	.0	#	.0	.2	11.5	3.2	.1	6.2	.2	1.6	#	77.2
03009	5.7	2.7	4.0	.0	.1	.0	.2	12.5	3.8	.3	4.7	.2	.8	.1	77.6
12015	6.6	3.1	4.5	.0	.1	.0	.2	14.1	4.1	.2	5.4	.2	1.1	.1	74.8
18021	5.1	2.3	4.3	.0	#	.0	.2	11.5	3.8	.1	6.3	.3	1.6	.1	76.4
TOT PCT	5.7	2.6	4.2	.0	.1	.0	.2	12.4	3.7	.2	5.7	.2	1.3	.1	76.5
TOT OBS: 17238															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	9.9	12.9	2.2	.1	.0		26.0	12.9	26.9	26.4	28.4	23.4	25.4	23.7	24.3	22.3	
NE	.3	2.8	1.9	.2	.0	.0		5.4	10.6	4.2	6.1	4.8	6.3	3.4	6.8	3.9	6.4	
E	.3	1.7	1.0	.2	.0	.0		3.3	9.4	2.1	2.8	2.4	3.9	4.2	4.6	3.6	3.8	
SE	.3	2.6	2.1	.6	.2	.0		5.9	12.1	4.1	6.5	4.7	6.3	6.8	9.4	6.5	7.2	
S	.7	5.4	7.4	3.6	1.1	.2		18.5	15.3	18.4	15.6	17.9	14.8	18.4	17.2	21.6	19.3	
SW	.4	3.9	4.6	1.7	.3	.0		10.9	13.6	11.8	12.4	11.9	11.2	9.8	10.8	10.0	11.5	
W	.5	4.4	3.7	1.0	.1	.0		9.9	12.1	10.8	9.8	9.8	11.0	9.1	10.4	9.1	11.6	
NW	.7	6.7	5.7	1.1	.2	.0		14.4	12.5	15.9	17.9	13.8	17.3	13.5	14.1	12.7	14.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.8							5.8	.0	5.8	2.7	6.2	3.6	7.4	3.0	6.2	3.2	
TOT OBS							19547		12.7	4339	798	3719	642	3926	933	3848	1382	
TOT PCT	9.9	37.4	39.4	10.7	2.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+					00	03	09	15	21
N	4.5	14.2	6.6	.5	.0		26.0	12.9	26.8	28.1	23.1	24.2		
NE	1.3	3.0	.8	.1	.0		5.4	10.6	4.5	5.1	3.8	6.2		
E	1.1	1.7	.4	.1	.0		3.3	9.4	2.2	2.7	4.3	3.8		
SE	1.4	2.8	1.2	.4	.1		5.9	12.1	4.5	5.0	7.4	6.7		
S	2.8	7.6	3.5	2.2	.4		18.5	15.3	17.9	17.2	18.0	20.5		
SW	2.0	5.1	2.9	1.0	.1		10.9	13.6	11.8	11.7	10.0	10.3		
W	2.4	5.0	1.9	.5	.0		9.9	12.1	10.6	9.9	9.5	9.7		
NW	3.4	7.9	2.6	.4	.0		14.4	12.5	16.3	14.3	13.3	13.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.8						5.8	.0	5.4	5.9	6.6	5.3		
TOT OBS						19547		12.7	5077	4361	4879	3290		
TOT PCT	24.8	47.4	21.9	5.2	.7		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.4	3.7	34.2	41.9	12.0	2.5	.3	13.3	100.0	5077	
06009	5.9	3.6	38.7	39.4	10.5	1.9	.1	12.6	100.0	4361	
12015	6.6	4.4	38.9	38.5	9.3	2.1	.2	12.2	100.0	4879	
18021	5.5	4.6	38.1	38.0	10.8	2.4	.4	12.7	100.0	5230	
TOT										19547	
PCT	5.8	4.1	37.4	39.4	10.7	2.3	.3		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.8	4.0	6.7	6.3		4.2
NE	2.5	.8	1.0	.9		3.6
E	1.1	.5	.7	.8		4.5
SE	.8	.4	1.3	2.6		6.2
S	1.0	1.1	4.2	12.3		6.9
SW	.7	1.1	3.4	5.6		6.5
W	1.0	1.5	3.5	3.7		5.9
NW	2.5	2.1	5.0	4.2		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.9	1.6	2.6		5.2
TOT OBS					13354	5.4
TOT PCT	21.1	12.6	27.5	38.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.6	.2	.5	1.5	3.5	3.5	.7	.1	.2	.2	15.8	
.1	.1	.1	.3	.3	.4	.1	.1	.1	.1	3.8	
.1	.1	.1	.2	.2	.2	.1	.1	.1	.1	2.0	
.3	.1	.2	.7	.9	.7	.2	.1	.1	.1	2.0	
1.5	.6	1.6	2.7	4.3	2.9	.8	.2	.2	.1	3.8	
.5	.3	.6	1.6	2.5	1.7	.4	.1	.1	.1	2.9	
.2	.2	.4	1.1	2.3	1.6	.3	.1	.1	.1	3.6	
.3	.1	.4	1.4	3.1	1.9	.4	.1	.1	.1	5.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.6	.1	.2	.3	.8	1.1	.3	.1	.2	.1	3.1	
4.2	1.6	4.1	9.8	18.0	14.0	3.4	.7	.9	.5	42.8	
											13354 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >9000	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.6	2.0	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	4.0	5.2	5.4	5.5	5.5	5.5	5.5	5.5
= OR >2000	13.0	18.3	19.3	19.5	19.5	19.6	19.6	19.6
= OR >1000	23.6	34.0	36.6	37.3	37.5	37.6	37.6	37.6
= OR >600	28.9	42.3	45.9	46.9	47.1	47.3	47.3	47.3
= OR >300	30.1	45.2	49.6	50.8	51.1	51.3	51.3	51.3
= OR >150	30.3	46.1	51.0	52.3	52.7	52.9	52.9	52.9
= OR >0	30.4	46.6	52.0	53.5	54.4	55.8	56.9	57.1

TOTAL NUMBER OF OBS: 13449

PCT FREQ NM <5/8: 42.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.0	8.3	9.1	7.7	6.2	5.7	8.6	9.2	30.6	14149

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1858-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.9	.1	.1	.1	.7	.3	.1	.3	.0	.4	2.5	
	TOT %	.9	.1	.1	.1	.8	.3	.1	.3	.0	.4	2.8	
1/2<1	PCP	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.5	
	NO PCP	.2	.0	.0	.1	.3	.1	.1	.1	.0	.0	1.0	
	TOT %	.2	.0	.0	.1	.5	.2	.1	.1	.0	.0	1.5	
1<2	PCP	.1	.0	.0	.1	.6	.2	.1	.0	.0	.0	1.2	
	NO PCP	.1	.0	.0	.0	.2	.1	.0	.1	.0	.0	.6	
	TOT %	.2	.0	.0	.1	.7	.3	.2	.1	.0	.1	1.7	
2<5	PCP	.1	.0	.1	.2	1.5	.6	.3	.2	.0	.1	3.2	
	NO PCP	.9	.1	.1	.1	.8	.5	.3	.3	.0	.2	2.8	
	TOT %	.6	.1	.2	.4	2.3	1.1	.6	.5	.0	.2	5.9	
5<10	PCP	.5	.1	.1	.5	1.8	1.0	.6	.5	.0	.2	5.4	
	NO PCP	4.9	1.0	.6	1.0	4.0	2.6	1.8	3.0	.0	1.1	19.9	
	TOT %	5.4	1.1	.7	1.6	5.8	3.5	2.4	3.5	.0	1.3	25.3	
10+	PCP	.1	.0	.0	.2	.5	.3	.3	.3	.0	.0	1.9	
	NO PCP	19.5	4.0	2.1	2.8	8.0	5.2	6.0	9.3	.0	3.7	60.9	
	TOT %	19.6	4.0	2.2	3.0	8.5	5.5	6.4	9.9	.0	3.8	62.7	
TOT OBS													16890
TOT PCT		26.5	5.4	3.2	5.4	18.6	11.0	9.8	14.4	.0	5.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	.6	
	4-10	.2	.1	.1	.1	.3	.1	.1	.1	.0	.0	1.2	
	11-21	.2	.0	.0	.0	.3	.1	.1	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.5	.1	.1	.1	.8	.3	.1	.3	.0	.4	2.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	11-21	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.0	.1	.1	.5	.2	.1	.1	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	11-21	.1	.0	.0	.0	.3	.2	.1	.1	.0	.0	.7	
	22+	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.0	.2	.8	.3	.2	.1	.0	.1	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.3	.1	.1	.1	.3	.2	.2	.2	.0	.0	1.5	
	11-21	.3	.0	.1	.1	.9	.5	.2	.2	.0	.0	2.3	
	22+	.0	.0	.0	.2	1.1	.4	.2	.1	.0	.0	2.0	
	TOT %	.6	.1	.1	.4	2.3	1.1	.6	.5	.0	.3	6.1	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	1.3	2.2	
	4-10	1.7	.5	.4	.6	1.2	1.0	.9	1.4	.0	.0	7.6	
	11-21	2.8	.3	.2	.6	2.4	1.5	1.0	1.5	.0	.0	10.3	
	22+	.6	.1	.1	.3	2.0	.8	.4	.4	.0	.0	4.7	
	TOT %	5.2	1.0	.7	1.6	5.7	3.4	2.3	3.4	.0	1.3	24.8	
10+	0-3	.6	.2	.2	.2	.4	.2	.3	.4	.0	3.8	6.3	
	4-10	7.5	2.2	1.2	1.5	3.3	2.3	3.1	4.8	.0	.0	25.9	
	11-21	9.7	1.3	.8	1.3	3.6	2.2	2.5	3.9	.0	.0	29.5	
	22+	1.7	.2	.1	.2	1.1	.7	.6	.7	.0	.0	5.4	
	TOT %	19.5	4.1	2.3	3.1	8.4	5.5	6.5	9.8	.0	3.8	63.0	
TOT OBS													18157
TOT PCT		26.3	5.4	3.3	5.5	18.6	10.9	9.8	14.3	.0	5.9	100.0	

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.9	1.5	3.8	9.0	17.3	13.3	3.3	.7	.9	.5	54.2	45.8	3613
06009	3.7	1.8	4.3	9.6	16.0	12.9	3.1	.4	.8	.6	53.4	46.6	3303
12015	4.6	1.5	3.5	10.1	17.9	14.6	3.7	.5	1.1	.7	58.1	41.9	3151
18021	4.3	1.6	4.2	9.9	19.6	14.6	3.3	1.0	.6	.4	59.5	40.5	3651
TOT													13718
PCT	4.1	1.6	4.0	9.6	17.7	13.9	3.3	.7	.8	.5	56.4	43.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.6	1.8	2.3	6.1	23.4	63.8	4886
06009	2.3	1.3	1.4	6.4	25.3	63.3	4288
12015	3.0	1.6	1.6	6.4	26.8	58.7	4023
18021	3.1	1.2	2.1	5.8	22.2	65.6	4882
TOT							18459
PCT	2.8	1.5	1.9	6.1	24.9	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.0	10.0	22.7	33.1	44.1	3545
06009	3.8	10.6	24.5	30.4	45.1	3242
12015	4.6	10.1	24.4	35.1	40.5	3078
18021	4.3	10.8	23.9	37.2	39.0	3584
TOT						13449
PCT	4.2	10.4	23.9	34.0	42.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.1	.1	.1	.0	.3	.3
65/69	.0	.0	.1	.1	.5	.9	.9	.4	3.0	3.0
60/64	.0	.0	.1	.3	1.7	4.8	6.7	3.1	10.7	10.7
55/59	.0	.0	.1	.4	2.1	5.7	9.8	7.1	25.2	25.2
50/54	.0	.1	.1	.6	3.1	5.6	11.9	8.7	30.1	30.1
45/49	.0	.0	.1	.8	2.2	5.9	5.2	5.1	19.4	19.4
40/44	.0	.0	.1	.2	.8	1.2	1.2	1.0	4.6	4.6
35/39	.0	.0	.0	.1	.1	.1	.1	.2	.6	.6
30/34	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
25/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL									9735	100.0
PCT	.0	.2	.3	2.6	10.8	24.3	36.0	25.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
65/69	1.1	.1	.1	.0	.3	.3	.2	.7	.0	.1
60/64	6.8	.7	.3	.4	2.0	1.4	1.4	3.1	.0	.6
55/59	8.0	1.1	.7	1.2	4.8	2.3	1.9	4.0	.0	1.0
50/54	6.0	1.5	1.3	2.4	8.3	3.9	2.5	3.4	.0	.7
45/49	3.2	1.2	.8	1.1	3.6	2.8	3.1	3.1	.0	.5
40/44	.6	.5	.3	.3	.5	.7	.9	.7	.0	.0
35/39	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0
30/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	26.1	5.3	3.4	5.6	19.6	11.3	10.3	15.4	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	64	61	59	49	45	31	55.4	5106
06009	72	61	58	53	48	44	31	53.6	4409
12015	69	60	57	53	47	43	27	53.0	4943
18021	75	63	60	54	48	44	28	54.5	5237
TOT	75	63	60	54	48	44	27	54.2	19695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	14.7	26.5	33.0	21.2	80	2331
06009	.0	2.1	8.1	22.4	38.6	28.8	84	2396
12015	.0	2.0	7.4	22.1	38.0	30.5	84	2341
18021	.1	4.3	12.6	25.3	34.8	22.8	81	2576
TOT	3	309	1056	2403	3560	2513	82	9844

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1858-1974

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
16/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	90	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.2	.1	.0	160	.1	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.2	.6	.6	.5	.1	.0	351	.1	2.0
6	.0	.0	.0	.0	.0	.0	.1	.3	.8	.5	.3	.0	.0	281	.1	1.6
5	.0	.0	.0	.0	.0	.0	.2	.8	.7	.9	.3	.0	.0	479	.2	2.7
4	.0	.0	.0	.0	.0	.0	.5	1.3	1.2	1.0	.2	.0	.0	690	.3	3.9
3	.0	.0	.0	.0	.0	.1	.8	1.4	1.6	1.0	.2	.0	.0	870	.4	4.9
2	.0	.0	.0	.0	.0	.2	2.3	2.1	2.0	1.5	.3	.0	.0	1346	.6	7.8
1	.0	.0	.0	.0	.0	.4	2.6	2.8	2.9	1.5	.3	.0	.0	1693	.7	9.7
0	.0	.0	.0	.0	.1	1.2	4.7	3.1	3.0	1.6	.1	.0	.0	2216	.8	13.0
-1	.0	.0	.0	.0	.1	1.9	3.7	3.2	2.6	1.1	.1	.0	.0	2017	.6	12.0
-2	.0	.0	.0	.0	.2	2.7	3.1	2.0	2.0	.8	.0	.0	.0	1706	.6	10.1
-3	.0	.0	.0	.0	.3	2.6	2.2	1.5	1.3	.3	.0	.0	.0	1278	.5	7.8
-4	.0	.0	.0	.0	.6	2.7	1.4	.9	.7	.2	.0	.0	.0	986	.2	6.3
-5	.0	.0	.0	.0	.9	1.5	.9	.6	.5	.1	.0	.0	.0	670	.2	4.3
-6	.0	.0	.0	.1	.7	.7	.3	.3	.1	.0	.0	.0	.0	321	.1	2.2
-7/-8	.0	.0	.0	.3	1.1	.8	.4	.2	.1	.0	.0	.0	.0	412	.1	2.9
-9/-10	.0	.0	.0	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	143	.0	1.1
-11/-13	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	88	.0	.5
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL														15817		
PCT	.0	.1	.1	1.0	4.5	15.1	23.4	20.9	20.1	11.7	2.7	.5	.1	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.7	.2	.0	.0	.0	3.3	<1	.1	.8	.0	.0	.0	.0	1.0
1-2	.1	4.3	3.0	.0	.0	.0	7.4	1-2	.0	1.0	.6	.0	.0	.0	1.7
3-4	.0	2.6	4.9	.3	.0	.0	7.8	3-4	.0	.5	.8	.0	.0	.0	1.4
5-6	.0	.6	3.5	.6	.0	.0	4.8	5-6	.0	.1	.3	.0	.0	.0	.4
7	.0	.2	1.1	.5	.0	.0	1.9	7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.1	.6	.4	.0	.0	1.0	8-9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.3	.1	.0	.0	.5	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.2	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.4	13.7	2.0	.1	.0	26.8	TOT PCT	.1	2.6	1.9	.2	.0	.0	4.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5	<1	.1	.7	.0	.0	.0	.0	.8
1-2	.0	.8	.4	.0	.0	.0	1.2	1-2	.0	1.0	.6	.0	.0	.0	1.7
3-4	.0	.2	.3	.0	.0	.0	.5	3-4	.0	.2	.6	.1	.0	.0	.9
5-6	.0	.0	.2	.1	.0	.0	.3	5-6	.0	.1	.6	.1	.0	.0	.8
7	.0	.0	.1	.1	.0	.0	.2	7	.0	.0	.1	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.1	8-9	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	1.0	.2	.0	.0	2.8	TOT PCT	.2	2.1	2.1	.5	.1	.0	5.0

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.4	.1	.0	.0	.0	1.8	.1	1.0	.1	.0	.0	.0	1.2	
1-2	.1	1.9	1.5	.0	.0	.0	3.5	.1	1.5	.6	.0	.0	.0	2.2	
3-4	.1	1.1	2.6	.3	.0	.0	4.0	.0	.6	1.6	.2	.0	.0	2.4	
5-6	.0	.3	2.2	.8	.1	.0	3.4	.0	.2	1.1	.4	.0	.0	1.7	
7	.0	.1	1.1	1.0	.2	.0	2.4	.0	.1	.7	.3	.0	.0	1.1	
8-9	.0	.1	.5	.7	.2	.0	1.4	.0	.0	.4	.4	.1	.0	.8	
10-11	.0	.0	.3	.7	.2	.0	1.2	.0	.0	.1	.2	.1	.0	.4	
12	.0	.0	.1	.2	.1	.0	.4	.0	.0	.1	.2	.1	.0	.4	
13-16	.0	.0	.2	.4	.3	.1	1.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.9	8.6	4.2	1.3	.2	19.6	.2	3.5	4.8	1.9	.3	.0	10.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.4	.1	.0	.0	.0	1.6	.3	1.8	.1	.0	.0	.0	2.2	
1-2	.1	1.4	.7	.0	.0	.0	2.4	.1	2.6	1.4	.0	.0	.0	4.1	
3-4	.1	.7	1.1	.1	.0	.0	2.0	.0	1.2	2.0	.1	.0	.0	3.3	
5-6	.0	.2	.8	.2	.0	.0	1.2	.0	.3	1.2	.3	.0	.0	1.8	
7	.0	.1	.5	.1	.0	.0	.6	.0	.1	.5	.2	.0	.0	.8	
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.0	.2	.2	.0	.0	.4	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.1	3.6	.8	.1	.0	8.9	.4	6.1	5.7	1.2	.1	.0	13.5	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.6	10.3	.6	.0	.0	.0	20.4	
1-2	.6	14.8	8.8	.0	.0	.0	24.2	
3-4	.1	7.2	13.8	1.1	.0	.0	22.3	
5-6	.0	1.9	10.0	2.5	.1	.0	14.5	
7	.0	.5	4.2	2.4	.2	.0	7.4	
8-9	.0	.2	2.0	1.8	.4	.0	4.4	
10-11	.0	.1	1.1	1.4	.3	.0	2.9	
12	.0	.0	.3	.7	.2	.0	1.3	
13-16	.0	.0	.4	.9	.5	.1	1.9	
17-19	.0	.0	.1	.1	.2	.1	.4	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.4	35.0	41.3	11.0	2.1	.2	100.0	9959

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	7.2	10.5	6.6	3.3	1.3	.8	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4339	4
6-7	.0	1.6	5.7	6.6	4.6	2.9	1.9	.6	.8	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	3440	6
8-9	.0	.7	3.3	5.2	4.2	3.0	2.3	1.0	1.0	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	2942	7
10-11	.0	.0	1.0	1.6	1.7	1.3	.9	.4	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	1079	7
12-13	.0	.0	.5	.3	.3	.4	.3	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	307	9
>13	.0	.0	.0	.3	.2	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	10
INDET	2.6	1.1	1.8	1.4	.9	.5	.4	.2	.3	.1	.0	.3	.2	.0	.0	.0	.0	.0	.0	13810	5
TOT PCT	3.7	11.3	23.0	21.9	15.1	9.6	6.5	3.0	3.5	1.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1974
(OVER-ALL) 1958-1974

TABLE 20

AREA 0039 NEWPORT
44.7N 124.9W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	2	.0
69/70	.0	.0	.0	.0	.0	.0	.2	.3	.2	.0	.0	.0	12	.1
67/68	.0	.0	.0	.0	.0	.1	.3	1.9	.9	.1	.0	.0	30	.3
65/66	.0	.0	.0	.0	.0	.7	1.9	6.5	2.8	.3	.0	.0	183	1.0
63/64	.0	.0	.0	.0	.0	2.6	12.6	19.3	7.9	2.2	.1	.1	477	3.7
61/62	.0	.0	.1	.2	.3	9.7	21.1	21.8	22.6	5.5	.0	.1	1303	7.1
59/60	.3	.1	.1	.2	1.6	21.0	21.9	18.0	33.1	19.5	1.8	.1	1989	10.8
57/58	.4	.1	.3	1.5	5.4	25.3	18.2	13.2	18.1	27.1	9.7	.9	2061	11.2
55/56	.9	1.3	1.2	2.6	24.2	26.3	12.2	10.4	7.5	27.0	30.9	5.9	2582	14.1
53/54	6.2	4.3	4.7	6.7	28.7	8.3	5.6	4.5	4.2	11.7	33.3	23.9	2240	12.2
51/52	26.4	18.9	15.1	26.9	26.3	3.2	3.4	2.7	1.6	3.8	18.0	32.3	2339	13.9
49/50	37.2	44.4	40.2	42.8	10.0	2.2	2.0	1.1	.7	1.7	5.0	27.3	2894	15.8
47/48	20.5	22.6	30.7	15.2	2.2	.5	.5	.2	.1	.7	.7	6.2	1347	7.3
45/46	6.5	7.1	6.8	2.6	.9	.1	.1	.0	.2	.4	2.3	.3	364	2.0
43/44	1.1	.8	.5	.8	.3	.0	.0	.0	.0	.1	.0	.5	94	.3
41/42	.3	.3	.2	.3	.1	.0	.0	.0	.0	.1	.0	.2	19	.1
39/40	.9	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.2	13	.1
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1135	1384	1431	1306	2114	2077	1491	1292	1768	1756	1468	1127	18349	100.0
MEAN	49.6	49.4	49.2	50.2	53.1	57.2	58.9	60.0	59.4	56.8	54.0	51.3	54.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1016	1015	1015	1015	1015	1017	1017	1021	1016	936
FEB	1019	1019	1018	1019	1018	1019	1019	1018	1019	1238
MAR	1017	1014	1017	1013	1017	1016	1017	1017	1017	1330
APR	1019	1016	1019	1017	1019	1016	1020	1017	1019	1241
MAY	1021	1020	1021	1017	1020	1018	1021	1019	1021	2024
JUN	1020	1018	1020	1015	1019	1017	1020	1017	1020	2036
JUL	1020	1019	1019	1019	1019	1018	1020	1019	1020	1377
AUG	1018	1020	1018	1021	1018	1020	1018	1020	1018	1246
SEP	1017	1017	1017	1018	1017	1018	1018	1017	1017	1601
OCT	1018	1016	1018	1016	1018	1016	1019	1017	1018	1436
NOV	1018	1017	1018	1018	1017	1017	1018	1018	1018	1306
DEC	1015	1012	1016	1018	1015	1018	1017	1017	1016	910
ANN	1018	1017	1018	1017	1018	1018	1019	1018	1018	16701
OBS	3882	365	3680	247	3465	499	3793	770		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	987	989	999	1009	1017	1024	1032	1039	1039
FEB	985	995	1002	1012	1020	1026	1032	1035	1039
MAR	989	995	1002	1011	1017	1023	1030	1033	1037
APR	992	999	1006	1014	1019	1024	1031	1035	1040
MAY	999	1007	1011	1017	1021	1024	1030	1033	1039
JUN	998	1007	1012	1016	1020	1023	1027	1030	1034
JUL	998	1003	1012	1017	1020	1023	1026	1028	1035
AUG	992	998	1008	1016	1019	1021	1025	1027	1029
SEP	986	992	1007	1014	1017	1020	1026	1029	1034
OCT	987	993	1004	1014	1019	1023	1029	1033	1035
NOV	990	995	1002	1013	1019	1024	1030	1033	1037
DEC	982	986	994	1009	1017	1024	1031	1034	1039

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1857-1974

JANUARY

AREA 0040 ASTORIA
46.3N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	9.7	1.6	1.1	.0	1.6	.0	.0	14.1	3.8	.0	.0	.0	2.7	.0	79.5
NE	7.6	.0	3.9	.0	1.4	.0	.0	12.8	.7	.0	3.5	.0	4.6	.9	77.5
E	13.7	.3	1.9	.0	.7	.0	.3	17.0	.9	.0	3.1	.0	2.5	.8	75.8
SE	20.5	4.3	7.7	.0	.1	.0	.0	32.1	3.0	.8	7.9	.0	2.0	.0	53.0
S	26.7	2.6	11.8	.0	.4	.0	.3	40.1	2.7	.4	14.1	.0	1.0	.0	41.9
SW	17.0	3.1	9.0	.0	.1	.0	.2	27.4	6.3	.0	8.7	.0	.8	.0	56.8
W	8.0	2.5	12.4	.0	1.3	.0	1.5	22.9	9.4	.0	5.8	.0	.0	.4	61.5
NW	4.3	5.8	4.8	.0	1.9	.0	1.1	17.4	4.5	.0	1.4	.0	.3	.0	78.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.5	.0	2.2	.0	.0	6.7	5.6	.0	24.7	.0	1.1	.0	61.8
TOT PCT	14.5	2.4	7.3	.0	.9	.0	.4	24.3	4.0	.2	7.7	.0	1.5	.2	62.1
TOT OBS:	1852														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	13.2	2.2	5.7	.0	.5	.0	.7	23.4	2.6	.2	10.1	.0	.9	.2	62.8
0600	13.3	3.3	8.1	.0	1.1	.0	.6	26.5	5.6	.6	4.5	.0	.8	.0	62.4
1200	16.2	2.8	8.3	.0	1.1	.0	.2	27.5	4.1	.0	7.1	.0	1.1	.5	59.8
1800	9.9	1.3	7.3	.0	.8	.0	.5	19.0	4.6	.0	8.4	.0	3.3	.0	64.8
TOT PCT	14.4	2.4	7.3	.0	.9	.0	.5	24.3	4.0	.2	7.7	.0	1.4	.2	62.2
TOT OBS:	1867														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.4	1.8	.5	.1	.0		3.2	12.0		5.4	5.5	5.4	12.2	5.2	2.9	4.2	5.9
NE	.4	3.0	2.8	1.2	.2	.0		7.6	13.8		6.4	7.5	6.4	4.0	7.1	11.5	6.6	9.7
E	.4	4.3	6.2	3.3	.9	.0		13.1	17.0		12.8	15.3	13.1	10.5	12.8	21.0	18.2	15.3
SE	.8	2.9	3.7	2.5	1.3	.2		11.1	18.7		9.7	11.6	11.8	14.8	9.8	12.3	7.6	15.4
S	.5	3.0	7.3	5.8	2.7	.4		19.7	21.6		21.1	20.7	18.2	19.9	20.6	17.8	22.0	16.4
SW	.5	3.0	6.1	3.8	.9	.0		14.3	18.1		14.9	13.2	13.4	13.6	14.7	14.0	13.2	14.3
W	.2	2.5	6.8	2.6	.7	.1		12.9	17.8		14.1	8.2	14.9	13.1	16.6	9.1	13.3	11.6
NW	.4	2.3	4.4	2.0	.4	.1		9.6	16.7		10.2	10.3	10.1	9.7	8.5	7.4	10.7	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.5							4.5	.0		5.3	7.7	4.7	2.3	4.6	3.9	4.1	.9
TOT OBS	170	504	837	464	154	18	2147		17.0		374	261	296	88	351	280	270	227
TOT PCT	7.9	23.5	39.0	21.6	7.2	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	18
N	1.4	2.6	1.0	.2	.0			3.2	12.0		5.4	7.0	4.2	5.0		
NE	1.6	3.4	1.9	.7	.0			7.6	13.8		6.4	5.9	9.1	8.0		
E	1.6	6.5	4.9	1.9	.2			13.1	17.0		13.9	12.5	10.4	16.9		
SE	1.8	3.8	2.8	2.1	.6			11.1	18.7		10.5	12.5	10.9	11.2		
S	1.4	5.7	6.6	5.3	.8			19.7	21.6		20.9	18.6	19.3	19.5		
SW	1.3	3.2	3.2	2.3	.1			14.3	18.1		14.2	13.0	14.4	13.7		
W	.9	5.9	4.5	1.2	.3			12.9	17.8		11.7	14.5	13.3	12.5		
NW	1.3	4.1	3.1	1.0	.2			9.6	16.7		10.3	10.0	8.0	10.6		
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0		
CALM	4.5							4.5	.0		6.3	4.2	4.3	2.6		
TOT OBS	342	797	644	317	47	2147			17.0		635	384	631	497		
TOT PCT	15.9	37.1	30.0	14.8	2.2			100.0			100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1957-1974

JANUARY

AREA 0040 ASTORIA
46.5N 124.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM				WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10		11-21	22-33	34-47				
00Z03	6.3	3.5	20.5		37.8	23.0	8.3	.6	17.5	100.0	635
06Z09	4.2	2.6	20.1		40.1	24.2	8.6	.3	17.8	100.0	384
12Z15	4.3	3.5	24.7		41.0	20.6	5.2	.6	16.3	100.0	621
18Z21	2.6	4.0	28.4		37.0	19.1	7.0	1.8	16.9	100.0	497
TOT	4.6	7.4	90.4		83.7	46.4	19.4	1.8	17.0		2147
PCT	4.5	3.4	23.5		39.0	21.6	7.2	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL DBS	CLOUD COVER
N	1.8	.8	1.6	1.2		4.3
NE	3.5	.3	1.5	1.7		3.5
E	4.8	1.4	3.0	5.7		4.9
SE	.7	.6	1.8	5.2		6.7
S	.7	.8	2.9	15.6		7.3
SW	.9	1.4	4.1	8.1		6.7
W	1.4	1.7	4.4	6.9		6.2
NW	1.1	1.1	4.8	2.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	1.3	3.5		6.3
TOT DBS	195	103	314	626	1238	6.0
TOT PCT	15.8	8.3	25.4	50.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION											
000	150	300	400	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	DBS
.0	.0	.1	.3	1.0	.9	.0	.0	.0	.0	2.9	
.3	.0	.5	.7	.4	.6	.0	.0	.0	.1	4.3	
.6	.0	.2	2.2	2.2	1.3	.4	.1	.1	.0	7.7	
.8	.1	.2	2.1	2.4	.6	.3	.0	.0	.0	1.9	
5.8	.1	1.7	4.7	2.7	1.8	.2	.2	.0	.1	2.7	
2.5	.1	1.0	2.2	3.0	1.0	.2	.2	.0	.0	4.1	
1.8	.2	.8	3.0	3.2	.9	.4	.1	.0	.0	4.2	
.4	.0	.2	1.6	2.8	1.3	.0	.0	.0	.0	3.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.5	.2	.3	1.1	1.1	.0	.1	.1	.0	.0	1.6	
170	7	56	220	237	102	28	9	1	3	405	1238
13.7	.6	4.5	17.8	19.1	8.2	2.3	.7	.1	.2	32.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >6500	.3	.3	.3	.3	.3	.3	.3	.3
>DR >5000	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>DR >3500	2.3	3.2	3.3	3.3	3.3	3.3	3.3	3.3
>DR >2000	7.5	11.0	11.5	11.5	11.5	11.5	11.6	11.6
>DR >1000	20.8	28.4	30.5	30.5	30.6	30.6	30.7	30.7
>DR >600	30.6	43.9	47.3	47.8	48.2	48.3	48.5	48.5
>DR >300	31.4	46.5	50.9	51.6	52.7	52.8	53.0	53.0
>DR >150	31.6	46.8	51.4	52.1	53.3	53.4	53.5	53.5
>DR >0	32.1	49.4	58.7	61.8	65.9	66.5	67.2	67.3
TOTAL	399	614	729	768	819	826	835	836

TOTAL NUMBER OF OBS: 1242

PCT FREQ NM <5/8: 32.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL DBS
9.1	4.1	7.0	6.4	5.7	4.6	9.6	9.0	31.3	13.0	1292

JANUARY

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1857-1974

TABLE 8

AREA 0040 ASTORIA
46.3N 124.8WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.5	.2	*	.0	.0	.0	.8	
	NO PCP	.0	.0	.1	.1	.3	.2	.0	.0	.0	.2	.9	
	TOT %	.0	.0	.1	.3	.8	.4	*	.0	.0	.2	1.7	
1/2<1	PCP	.0	.1	.1	.2	.4	.1	.2	*	.0	.0	1.0	
	NO PCP	.0	.0	.1	.2	1.0	.5	.3	.1	.0	.7	2.9	
	TOT %	.0	.1	.1	.5	1.3	.6	.5	.1	.0	.7	3.9	
1<2	PCP	.1	.1	.3	.2	1.0	.3	.3	.1	.0	.1	2.4	
	NO PCP	.0	.1	.1	.2	.5	.2	.1	.0	.0	.1	1.2	
	TOT %	.1	.2	.4	.4	1.4	.5	.4	.1	.0	.2	3.6	
2<5	PCP	*	.1	.6	.8	2.3	.9	.6	.3	.0	.0	5.8	
	NO PCP	.1	.1	.5	.3	1.4	.9	.5	.4	.0	.2	4.3	
	TOT %	.1	.3	1.1	1.1	3.8	1.8	1.1	.7	.0	.2	10.1	
5<10	PCP	.6	.6	1.2	1.7	3.1	1.9	.9	.5	.0	.1	10.5	
	NO PCP	.8	1.6	2.2	2.6	3.3	3.0	2.1	1.5	.0	.2	17.2	
	TOT %	1.4	2.2	3.4	4.2	6.4	4.8	3.0	2.0	.0	.3	27.8	
10+	PCP	*	.1	.4	.4	.7	.5	.8	.8	.0	.2	3.9	
	NO PCP	3.4	4.8	9.9	3.6	5.4	5.6	6.9	6.2	.0	3.1	48.9	
	TOT %	3.5	5.0	10.3	4.0	6.1	6.1	7.8	6.9	.0	3.2	52.9	
TOT OBS													1851
TOT PCT		5.0	7.7	15.4	10.4	19.8	14.2	12.8	9.8	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.1	.3	.1	.0	.1	.0		.5	
	11-21	.0	.0	.1	.1	.1	.2	.1	.0	.0		.6	
	22+	.0	.0	.0	.1	.3	.1	.0	.0	.0		.4	
	TOT %	.0	.0	.1	.2	.7	.4	.1	.1	.0	.2	1.7	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.7	.9	
	4-10	.0	.1	.0	.1	.2	.3	.1	*	.0		.7	
	11-21	.0	.0	*	.1	.7	.2	.3	.1	.0		1.4	
	22+	.0	.1	.1	.3	.4	.1	.1	.0	.0		1.0	
	TOT %	.0	.1	.1	.4	1.3	.7	.5	.1	.0	.7	3.9	
1<2	0-3	.0	*	*	.0	.0	.0	.0	.1	.0	.2	.3	
	4-10	.0	*	.2	.3	.3	.1	.2	.1	.0		1.1	
	11-21	.1	.1	.4	.2	.6	.2	.3	.1	.0		1.8	
	22+	.0	.0	.1	.1	.7	.2	*	.0	.0		1.2	
	TOT %	.1	.2	.6	.6	1.5	.5	.5	.2	.0	.2	4.3	
2<5	0-3	.1	.0	.1	.1	.2	.1	.0	.1	.0	.3	.8	
	4-10	.0	.1	.4	.1	.2	.1	.1	.0	.0		1.0	
	11-21	.1	.1	.5	.3	1.3	.7	.6	.4	.0		4.0	
	22+	.0	*	.2	.6	2.2	.9	.4	.2	.0		4.3	
	TOT %	.1	.2	1.1	1.1	4.0	1.8	1.0	.7	.0	.3	10.2	
5<10	0-3	.0	.2	.0	.3	.2	.1	.1	.1	.0	.3	1.2	
	4-10	.7	.9	1.0	.8	.5	1.0	.5	.4	.0		5.7	
	11-21	.4	.7	1.4	1.4	2.2	1.8	1.4	1.0	.0		10.3	
	22+	.2	.4	.9	1.7	3.4	1.9	.9	.5	.0		9.9	
	TOT %	1.3	2.1	3.3	4.2	6.3	4.8	2.8	1.9	.0	.3	27.0	
10+	0-3	.2	.2	.2	.3	.1	.1	.1	.2	.0	3.2	4.3	
	4-10	1.7	2.0	2.8	1.4	1.7	1.4	1.5	1.7	.0		14.2	
	11-21	1.3	1.9	4.1	1.7	2.3	3.1	4.3	3.2	.0		22.0	
	22+	.4	1.0	3.0	.9	1.8	1.6	1.9	1.8	.0		12.4	
	TOT %	3.5	5.1	10.2	4.3	5.9	6.1	7.8	6.9	.0	3.2	52.9	
TOT OBS													2000
TOT PCT		5.0	7.8	15.3	10.7	19.7	14.2	12.7	9.8	.0	4.8	100.0	

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1857-1974

JANUARY

AREA 0040 ASTORIA
46.5N 124.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	14.9	.8	6.6	19.7	19.9	6.6	2.3	.5	.0	.3	71.5	28.5	396
06009	11.2	.4	2.7	13.2	19.0	9.3	3.1	1.2	.0	.4	60.5	39.5	258
12015	18.4	.3	3.2	15.2	16.7	8.2	2.3	.9	.0	.3	65.5	34.5	342
18021	8.0	.8	4.6	21.8	20.6	9.5	1.1	.4	.4	.0	67.2	32.8	262
TOT	172	7	56	221	239	103	28	9	1	3	839	419	1258
PCT	13.7	.6	4.5	17.6	19.0	8.2	2.2	.7	.1	.2	66.7	33.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.9	4.2	9.7	12.5	25.5	50.2	616
06009	1.1	3.2	4.5	8.2	24.9	58.2	378
12015	2.0	4.3	4.1	8.9	30.5	50.3	610
18021	1.5	3.6	2.4	10.7	26.2	55.6	412
TOT	34	79	87	206	545	1065	2016
PCT	1.7	3.9	4.3	10.2	27.0	52.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	15.1	23.5	45.4	27.6	27.0	392
06009	11.1	14.3	32.1	30.2	37.7	252
12015	18.8	22.6	39.3	27.1	33.6	336
18021	8.0	15.3	38.5	29.8	31.7	262
TOT	171	244	492	353	397	1242
PCT	13.8	19.6	39.6	28.4	32.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.1	.1	.0	2	.1
55/59	.1	.0	.0	.0	.1	.2	.7	.7	27	1.8
50/54	.1	.0	.1	.4	.6	1.1	4.4	11.2	269	17.9
45/49	.0	.0	.1	1.0	2.9	5.7	7.8	23.4	609	40.4
40/44	.0	.0	.1	.6	2.9	2.9	6.1	13.8	388	25.7
35/39	.0	.0	.1	.2	1.0	1.5	2.3	5.8	163	10.8
30/34	.0	.0	.1	.3	.2	.5	.5	.9	38	2.5
25/29	.0	.0	.0	.0	.0	.2	.1	.5	11	.7
TOTAL	2	0	5	37	102	182	332	947	1507	100.0
PCT	.1	.0	.3	2.5	6.8	12.1	22.0	56.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
55/59	.1	.1	.1	.4	.8	.2	.1	.0	.0	.0
50/54	.1	.4	1.9	2.1	8.4	3.2	1.1	.4	.0	.2
45/49	2.3	1.7	4.6	3.8	9.0	6.8	5.9	4.2	.0	2.3
40/44	1.7	3.1	4.9	1.8	1.1	3.3	4.6	3.0	.0	2.2
35/39	.4	1.6	3.5	.9	.2	.8	1.3	1.0	.0	1.0
30/34	.1	.6	1.1	.1	.1	.0	.1	.2	.0	.3
25/29	.0	.1	.5	.1	.0	.0	.0	.0	.0	.0
TOTAL	4.6	7.5	16.7	9.3	19.7	14.3	13.1	8.9	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	55	53	46	36	31	23	45.8	637
06009	55	54	52	46	36	30	29	44.9	388
12015	63	55	52	45	35	28	27	44.4	628
18021	59	54	53	46	35	30	27	43.6	492
TOT	63	55	52	46	35	29	23	45.2	2145

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	3.0	7.1	9.9	22.9	56.8	88	463
06009	.4	3.4	8.6	11.9	21.3	54.5	87	268
12015	.0	2.1	5.7	12.6	19.4	60.2	89	475
18021	.0	2.9	6.4	14.3	26.1	50.3	87	314
TOT	2	42	103	163	337	853	68	1520

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1937-1974

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AREA 0040 ASTORIA
46.5N 124.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 26	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	M FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	3	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.1	.6	.1	.0	12	.1	.7
6	.0	.0	.0	.0	.0	.1	.1	.3	.1	.0	7	.1	.4
5	.0	.0	.0	.0	.0	.0	.0	.8	.1	.1	16	.1	.9
4	.0	.0	.0	.0	.0	.2	1.1	.4	.0	.0	27	.1	1.6
3	.0	.0	.0	.0	.0	.0	.9	1.6	1.0	.0	55	.2	3.3
2	.0	.0	.0	.0	.0	1.8	3.5	.4	.0	.0	90	.8	4.9
1	.0	.0	.0	.0	.1	5.7	3.9	.4	.1	.0	159	2.2	7.9
0	.0	.0	.0	.0	1.3	6.5	5.1	.1	.0	.0	204	1.9	11.0
-1	.0	.0	.0	.1	1.7	5.2	1.8	.1	.0	.0	142	1.0	8.0
-2	.0	.0	.0	.0	2.7	6.3	.6	.0	.0	.0	151	.4	9.1
-3	.0	.0	.0	.4	2.8	3.8	.6	.0	.0	.0	120	.1	7.5
-4	.0	.0	.1	.6	3.5	3.7	.3	.0	.0	.0	129	.4	7.7
-5	.0	.0	.1	1.6	3.2	1.8	.3	.0	.0	.0	109	.4	6.5
-6	.0	.0	.1	1.5	2.3	.9	.1	.0	.0	.0	76	.1	4.7
-7/-8	.0	.1	.3	4.0	3.0	.7	.1	.0	.0	.0	130	.2	8.0
-9/-10	.0	.0	1.8	1.7	.9	.1	.0	.0	.0	.0	70	.1	4.3
-11/-13	.0	.1	1.1	.6	.3	.1	.1	.0	.0	.0	37	.0	2.3
-14/-16	.1	1.3	.5	.2	.0	.1	.0	.0	.0	.0	35	.0	2.2
-17/-19	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	6	.0	.4
TOTAL	5	26	62	170	344	595	315	55	6	1	1379	129	1450
PCT	.3	1.6	3.9	10.8	21.8	37.7	19.9	3.5	.4	.1	100.0	8.2	91.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.3	.1	.0	.0	.0	1.6	.2	1.6	.0	.0	.0	.0	1.8
1-2	.1	.6	.3	.0	.0	.0	1.0	.1	.5	.8	.0	.0	.0	1.4
3-4	.0	.1	.4	.1	.0	.0	.6	.0	.0	.5	.3	.0	.0	1.0
5-6	.0	.1	.5	.1	.0	.0	.7	.0	.0	.0	.7	.2	.0	.9
7	.0	.0	.1	.3	.0	.0	.4	.0	.1	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.0	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	1.5	.7	.1	.0	4.9	.3	2.2	1.4	1.3	.2	.0	5.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	2.0	.0	.0	.0	.0	2.2	.1	1.4	.1	.0	.0	.0	1.6
1-2	.0	1.2	1.9	.0	.0	.0	3.2	.0	.5	1.0	.0	.0	.0	1.3
3-4	.0	.2	3.1	1.1	.0	.0	4.4	.0	.5	.5	.3	.0	.0	1.3
5-6	.0	.6	.5	3.0	.5	.0	4.6	.0	.2	.7	.9	.2	.0	2.0
7	.0	.0	.1	.3	1.0	.0	1.4	.0	.0	.2	.4	.0	.0	.5
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.2	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.1	5.7	4.8	1.6	.0	16.2	.1	2.4	2.7	1.9	.7	.0	7.9

PERIOD: (OVER-ALL) 1963-1974

JANUARY
TABLE 18 (CONT)AREA 0040 ASTORIA
46.5N 124.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.7	.2	.0	.0	.0		1.1	.1	1.5	.0	.0	.0	.0		1.6
1-2	.2	.9	3.0	.0	.0	.0		4.2	.1	.2	2.7	.0	.0	.0		3.0
3-4	.0	.5	1.7	1.0	.0	.0		3.2	.1	.2	1.8	.9	.0	.0		3.1
5-6	.0	.2	.6	2.4	.7	.0		3.9	.0	.3	.9	1.0	.2	.0		2.4
7	.0	.0	.6	.3	.2	.0		1.2	.0	.0	.7	.7	.0	.0		1.3
8-9	.0	.0	.1	.5	.0	.0		.6	.0	.1	.4	.2	.2	.0		.9
10-11	.0	.0	.1	.7	.5	.0		1.2	.0	.1	.4	.9	.1	.0		1.5
12	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.1	.0	.0		.2
13-16	.1	.0	.1	.6	1.0	.1		1.9	.0	.0	.0	.5	.0	.0		.5
17-19	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.1		.1
20-22	.0	.0	.0	.0	.2	.1		.4	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.1	.2	.1		.5	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	2.2	6.6	5.7	3.5	.5		18.9	.3	2.3	6.9	4.3	.5	.1		14.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.0	.0	.0	.0		.4	.0	.6	.0	.0	.0	.0		.6	
1-2	.0	1.4	2.3	.0	.0	.0		3.7	.1	.9	1.1	.0	.0	.0		2.2	
3-4	.0	.3	2.1	.5	.0	.0		2.9	.0	.5	1.7	.3	.0	.0		1.6	
5-6	.0	.1	2.1	.4	.1	.0		2.7	.0	.2	1.0	.3	.0	.0		1.6	
7	.0	.0	1.3	.3	.1	.0		1.8	.0	.2	.3	.4	.0	.0		1.2	
8-9	.0	.0	.4	.7	.2	.0		1.2	.0	.0	.1	.3	.1	.0		.5	
10-11	.0	.0	.1	.4	.0	.0		.5	.0	.0	.1	.0	.0	.0		.2	
12	.0	.0	.2	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.1	
13-16	.0	.0	.5	.0	.0	.0		.5	.0	.0	.2	.2	.0	.0		.5	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	2.2	9.0	2.3	.5	.0		14.1	.1	2.5	3.9	1.7	.3	.0		8.5	90.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	10.3	9.5	.5	.0	.0	.0	20.3	
1-2	.7	6.0	13.3	.0	.0	.0	20.0	
3-4	.1	2.4	10.8	4.7	.0	.0	18.1	
5-6	.0	1.7	6.3	8.9	1.9	.0	18.9	
7	.0	.4	3.5	2.8	1.3	.0	8.0	
8-9	.0	.1	1.0	2.1	.9	.0	4.0	
10-11	.0	.4	1.1	2.1	.6	.0	4.1	
12	.0	.0	.2	.2	.6	.0	1.1	
13-16	.1	.0	1.0	1.6	1.0	.1	3.8	
17-19	.0	.0	.0	.0	.2	.2	.5	
20-22	.0	.0	.0	.0	.5	.1	.6	
23-25	.0	.0	.0	.1	.4	.1	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	20.4	37.7	22.3	7.4	.6	100.0	822

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	3.0	7.5	6.8	4.2	1.3	.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	317	5
6-7	.2	3.8	8.7	12.3	6.8	5.1	3.6	2.0	2.2	.6	.4	.0	.3	.0	.0	.0	.0	.0	.0	589	7
8-9	.0	.8	2.0	3.8	2.7	1.7	1.8	.6	1.6	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	209	8
10-11	.0	.0	.2	.5	.5	1.6	1.0	.6	.8	.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	76	11
12-13	.0	.0	.2	.3	.5	.4	.5	.3	.4	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	42	11
>13	.0	.0	.0	.1	.1	.0	.0	.3	.2	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	12	14
INDET	.1	.1	.3	.2	.3	.4	.3	.4	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	32	10
TOTAL	.6	9.8	24.0	30.5	19.3	13.4	10.4	6.2	7.4	2.0	2.2	.7	.8	.0	.0	.0	.0	.0	.0	1273	7
PCT	.5	7.7	18.9	24.0	15.2	10.3	8.2	4.9	5.8	1.6	1.7	.7	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1858-1974

FEBRUARY

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	ORZL	PRIG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	4.5	2.3	.9	.0	1.1	.0	.0	8.4	.0	.0	6.6	.0	.7	.0	84.4
NE	4.1	1.3	2.2	.0	.4	.0	.0	7.3	1.1	.0	4.9	.0	1.3	.0	85.4
E	4.0	.3	4.5	.0	.6	.0	.0	9.1	.6	.0	3.8	.0	1.3	.0	85.2
SE	16.5	2.4	3.4	.0	.3	.0	.1	24.7	2.8	.5	8.9	.0	.3	.0	62.9
S	24.9	3.3	10.8	.0	.2	.0	.2	38.6	3.8	.0	8.2	.2	.3	.0	48.9
SW	20.8	4.7	3.8	.0	.4	.0	1.0	32.5	4.1	.0	7.3	.6	.5	.0	54.8
W	8.7	4.4	3.6	.0	2.9	.0	2.9	19.3	3.8	.0	9.2	.0	.0	1.1	66.7
NW	3.3	3.8	1.3	.0	4.3	.0	.9	14.6	3.8	.0	4.4	.0	.0	.1	77.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.2	2.5	.0	.0	.0	.0	3.7	.0	.0	22.2	.0	.0	.0	74.1
TOT PCT	12.1	3.0	5.2	.0	1.0	.0	.6	21.3	2.6	.1	7.6	.1	.5	.1	67.7
TOT OBS	1623														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	ORZL	PRIG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
0000	11.1	2.3	4.0	.0	1.5	.0	.2	18.7	2.1	.0	7.8	.4	1.0	.2	69.8
0600	10.6	3.4	3.0	.0	.9	.0	.6	20.3	3.8	.0	6.3	.3	.0	.3	69.1
1200	14.5	2.9	5.2	.0	1.3	.0	1.0	24.3	.8	.2	7.8	.0	.2	.0	66.7
1800	12.0	3.1	6.3	.0	.3	.0	.3	21.1	4.4	.0	8.9	.0	.5	.0	65.1
TOT PCT	12.2	2.9	5.1	.0	1.0	.0	.5	21.2	2.6	.1	7.7	.2	.5	.1	67.7
TOT OBS	1658														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.6	2.5	3.2	.6	.1	.0		7.2	13.0		6.3	7.3	6.0	12.0	7.8	6.2	7.3	7.6
NE	.3	3.4	2.8	.8	.2	.0		7.5	13.0		7.5	10.3	5.1	11.7	6.4	8.2	7.9	9.8
E	.6	4.8	4.8	2.3	.1	.0		14.5	14.3		11.8	11.3	12.1	9.6	18.9	21.8	18.9	9.4
SE	.4	3.6	5.8	2.4	.3	.1		13.0	16.9		11.6	10.0	8.6	14.1	13.5	12.7	15.4	21.3
S	.4	4.1	9.1	5.8	1.1	.2		20.7	18.7		20.3	20.1	23.6	18.5	23.3	27.1	17.1	14.2
SW	.3	3.6	5.4	2.6	.8	.1		12.6	16.9		10.3	14.1	14.2	14.1	12.9	9.6	12.1	16.0
W	.4	3.4	3.7	1.7	.4	.0		9.4	14.9		12.2	9.0	9.5	13.0	7.8	7.3	7.3	12.1
NW	.4	2.3	3.6	8.9	.7	.1		10.0	18.2		14.1	9.5	11.6	9.0	6.9	5.6	9.7	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		9.9	8.5	9.3	.0	4.5	1.5	4.2	1.9
TOT OBS	158	516	751	352	80	9	1866		15.4		338	201	259	94	313	195	311	155
TOT PCT	8.3	27.7	40.2	18.9	4.3	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	1.6	3.6	1.7	.3	.0		7.2	13.0	6.7	7.6	7.2	7.3		
NE	1.2	4.4	1.5	.2	.1		7.5	13.0	8.5	6.9	7.1	7.2		
E	2.1	7.6	4.3	.5	.1		14.5	14.3	11.6	11.4	18.8	15.7		
SE	1.3	6.2	3.6	1.7	.3		13.0	16.9	11.0	10.1	13.2	17.4		
S	1.3	7.9	6.1	3.1	.3		20.7	18.7	20.3	21.7	24.8	16.1		
SW	1.5	5.3	3.9	1.6	.2		12.6	16.9	11.7	14.2	11.6	13.4		
W	1.1	4.8	2.7	.7	.0		9.4	14.9	11.0	10.4	7.6	8.9		
NW	1.6	3.4	3.1	1.6	.3		10.0	18.2	12.4	11.0	6.4	10.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	5.0						5.0	.0	6.9	6.8	3.3	3.4		
TOT OBS	312	807	540	183	24	1866		15.4	539	393	508	466		
TOT PCT	16.7	43.2	28.9	9.8	1.3		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1858-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.9	3.2	27.8	37.8	19.3	4.6	.4	13.1	100.0	539
06009	6.8	3.7	28.6	42.8	15.0	2.5	.6	14.2	100.0	353
12015	3.3	2.4	29.5	40.7	19.9	3.9	.2	13.5	100.0	508
18021	3.4	4.7	24.7	40.6	20.2	5.6	.9	16.5	100.0	466
TOT	44	64	516	751	352	80	9	15.4		1866
PCT	5.0	3.4	27.7	40.2	18.9	4.3	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.7	2.2	1.3		4.0
NE	4.5	1.0	1.2	1.3		2.9
E	7.1	2.3	3.0	4.0		3.7
SE	2.1	.5	2.9	6.4		6.1
S	1.5	.5	4.1	14.4		7.0
SW	.8	1.2	3.4	6.1		6.5
W	.6	1.1	4.0	2.9		6.1
NW	1.8	.8	4.4	2.6		5.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	.9	1.4	1.8		4.4
TOT OBS	255	99	287	440	1081	5.4
TOT PCT	23.6	9.2	26.5	40.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.2	.1	.3	.5	.8	.9	.5	.0	.0	.0	3.9	
NE	.0	.0	.3	.9	.4	.3	.2	.0	.0	.0	5.9	
E	.2	.1	.2	2.1	1.2	.7	.8	.0	.3	.2	10.7	
SE	.6	.0	.6	1.9	2.7	1.2	.6	.0	.0	.2	4.0	
S	2.9	.1	1.7	5.0	5.3	.9	.4	.0	.2	.0	4.0	
SW	1.4	.1	1.3	1.3	3.1	.7	.1	.1	.0	.0	3.1	
W	.6	.0	.5	.9	1.6	1.4	.5	.0	.1	.1	2.9	
NW	.3	.0	.4	1.0	2.0	1.7	.9	.2	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.0	.2	.7	.3	.4	.2	.0	.0	.0	3.6	
TOT OBS	75	4	59	139	189	89	44	4	6	6	446	1081
TOT PCT	6.9	.4	5.3	14.7	17.5	8.2	4.1	.4	.6	.6	41.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6000	.6	.8	1.2	1.2	1.2	1.2	1.2	1.2
>OR >5000	1.0	1.2	1.6	1.6	1.6	1.6	1.6	1.6
>OR >3500	3.9	5.3	9.7	9.7	9.7	9.7	9.7	9.7
>OR >2000	8.2	12.9	13.9	13.9	13.9	13.9	13.9	13.9
>OR >1000	18.4	28.2	31.0	31.2	31.2	31.2	31.2	31.2
>OR >600	25.7	40.7	44.4	46.0	46.0	46.0	46.0	46.0
>OR >300	27.4	44.6	49.4	51.4	51.6	51.6	51.6	51.6
>OR >150	27.4	44.8	49.5	51.7	51.9	51.9	51.9	51.9
>OR >0	27.7	45.8	51.6	56.3	57.9	58.4	58.6	58.8
TOTAL	302	500	564	613	632	638	640	642

TOTAL NUMBER OF OBS: 1092

PCT FREQ NM <5/8: 41.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	17.6	4.3	7.8	6.1	4.0	9.5	8.7	10.8	28.8	6.1	1173

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1936-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.2	.2	.2	.1	.0	.0	.1	1.0	
	TOT %	.1	.0	.0	.3	.2	.4	.1	.0	.0	.1	1.2	
1/2<1	PCP	.1	.0	.0	.1	.3	.2	.0	.2	.0	.0	.8	
	NO PCP	.3	.0	.0	.2	.8	.3	.3	.2	.0	.4	2.3	
	TOT %	.4	.0	.0	.2	.9	.5	.4	.4	.0	.4	3.1	
1<2	PCP	.0	.1	.3	.4	2.0	.6	.0	.1	.0	.1	3.5	
	NO PCP	.0	.1	.1	.2	.4	.2	.1	.0	.0	.1	1.1	
	TOT %	.0	.2	.4	.6	2.3	.9	.1	.1	.0	.2	4.6	
2<5	PCP	.2	.1	.1	.8	1.8	.7	.2	.3	.0	.0	4.1	
	NO PCP	.0	.2	.2	.4	.5	.0	.1	.2	.0	.0	1.7	
	TOT %	.2	.3	.3	1.2	2.3	.7	.3	.5	.0	.0	5.8	
5<10	PCP	.2	.3	.6	1.2	3.2	2.0	1.0	.4	.0	.1	9.0	
	NO PCP	1.1	.7	1.3	1.9	3.5	2.8	2.1	2.4	.0	.9	16.7	
	TOT %	1.3	1.0	1.9	3.1	6.7	4.8	3.1	2.8	.0	1.0	25.7	
10+	PCP	.2	.0	.3	.4	.9	.7	.5	.6	.0	.1	3.7	
	NO PCP	4.8	5.6	12.1	6.2	8.0	5.0	5.0	6.1	.0	3.3	55.9	
	TOT %	4.9	5.6	12.4	6.6	8.9	5.6	5.5	6.7	.0	3.3	59.6	
TOT OBS													1624
TOT PCT		6.8	7.2	15.1	12.0	21.3	12.8	9.4	10.4	.0	5.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.0	.2	.1	.1	.1	.0	.0	.0	.5	
	11-21	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.3	.2	.3	.1	.0	.0	.1	1.2	
1/2<1	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	.5	
	4-10	.0	.0	.0	.1	.2	.1	.3	.1	.0	.0	.9	
	11-21	.2	.0	.0	.1	.3	.3	.1	.1	.0	.0	1.1	
	22+	.1	.0	.0	.0	.3	.0	.0	.2	.0	.0	.6	
	TOT %	.3	.0	.0	.2	.9	.4	.4	.3	.0	.3	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.1	.2	.0	.2	.1	.0	.0	.0	.0	.6	
	11-21	.0	.1	.2	.2	.8	.4	.1	.1	.0	.0	1.9	
	22+	.0	.0	.0	.4	1.3	.3	.0	.0	.0	.0	2.0	
	TOT %	.0	.2	.4	.7	2.3	.8	.1	.1	.0	.2	4.7	
2<5	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.3	.1	.1	.0	.0	.0	1.0	
	11-21	.1	.1	.2	.3	.3	.3	.2	.2	.0	.0	1.9	
	22+	.0	.0	.1	1.0	1.6	.3	.1	.3	.0	.0	3.3	
	TOT %	.2	.3	.4	1.4	2.6	.7	.3	.5	.0	.1	6.4	
5<10	0-3	.1	.0	.3	.1	.0	.1	.0	.1	.0	1.0	1.6	
	4-10	.2	.4	.5	.7	1.0	1.3	.9	.4	.0	.0	5.3	
	11-21	.8	.3	.8	1.8	3.2	1.9	1.3	1.0	.0	.0	11.0	
	22+	.2	.3	.2	.6	2.3	1.5	.6	1.2	.0	.0	7.1	
	TOT %	1.2	1.0	1.8	3.1	6.4	4.8	3.0	2.7	.0	1.0	25.1	
10+	0-3	.3	.2	.1	.2	.1	.1	.3	.3	.0	3.3	5.0	
	4-10	2.1	2.5	3.6	2.5	2.3	1.9	2.1	1.8	.0	.0	18.8	
	11-21	2.2	2.5	6.1	3.4	4.6	2.4	2.0	2.5	.0	.0	29.8	
	22+	.3	.7	2.0	.6	1.7	1.2	1.1	2.1	.0	.0	10.0	
	TOT %	5.0	5.9	11.9	6.8	8.7	5.6	5.3	6.7	.0	3.3	59.6	
TOT OBS													1727
TOT PCT		6.8	7.3	14.6	12.5	21.1	12.7	9.4	10.3	.0	5.3	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1858-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.4	.0	6.3	15.1	16.5	7.4	3.4	.3	1.1	.3	55.8	44.2	351
06009	10.6	.0	5.0	13.1	12.1	9.0	3.5	.5	.5	1.0	55.3	44.7	199
12015	7.1	.0	2.8	14.2	18.4	7.4	4.3	.0	.7	.0	55.0	45.0	282
18021	5.3	1.4	7.5	14.9	19.9	8.9	5.0	.7	.0	1.1	64.8	35.2	281
TOT	75	4	61	161	190	90	45	4	7	6	643	470	1113
PCT	6.7	.4	5.3	14.5	17.1	8.1	4.0	.4	.6	.5	57.8	42.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	2.9	3.1	7.9	22.4	63.0	919
06009	2.0	3.5	6.1	5.5	24.1	58.8	345
12015	2.2	3.2	4.2	4.6	27.0	58.7	496
18021	.7	2.5	6.2	7.4	27.5	55.6	403
TOT	25	33	83	113	444	1045	1763
PCT	1.4	3.0	4.7	6.4	25.2	59.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	5.5	12.2	31.2	26.5	42.3	343
06009	10.8	16.0	32.0	25.3	42.8	194
12015	7.2	10.4	27.3	28.8	43.9	278
18021	5.4	14.4	34.7	31.8	33.6	277
TOT	75	142	341	308	443	1092
PCT	6.9	13.0	31.2	28.2	40.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	.2	.0	2	.2
55/59	.0	.0	.1	.5	.4	.6	.4	.2	27	2.1
50/54	.0	.0	.0	.4	1.3	3.8	8.3	7.4	270	21.4
45/49	.0	.1	.2	.6	2.3	7.3	13.1	29.2	669	52.9
40/44	.0	.0	.0	.4	1.7	2.4	4.0	10.4	238	18.8
35/39	.0	.0	.1	.2	.2	.6	.6	2.5	92	4.1
30/34	.0	.0	.0	.0	.0	.1	.0	.4	6	.5
TOTAL	0	1	4	26	79	183	336	633	1264	100.0
PCT	.0	.1	.3	2.1	6.3	14.6	26.6	50.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
55/59	.1	.4	.7	.3	.3	.2	.1	.6	.0	.1
50/54	.9	1.4	4.6	3.2	7.0	2.5	.7	.6	.0	.5
45/49	3.3	3.4	7.0	6.3	13.3	7.0	4.4	5.8	.0	2.5
40/44	1.1	2.0	3.2	1.6	2.2	2.4	2.0	2.6	.0	1.9
35/39	.3	.6	.9	.2	.1	.2	.7	.9	.0	.2
30/34	.0	.1	.1	.6	.1	.0	.0	.2	.0	.0
TOTAL	5.6	7.9	16.7	11.6	22.9	12.3	7.9	10.1	.0	9.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	57	54	48	40	37	35	47.5	347
06009	57	55	52	47	39	36	33	46.3	358
12015	55	53	51	46	39	34	30	45.7	522
18021	62	55	52	47	40	35	33	46.8	462
TOT	64	56	53	47	39	36	30	46.6	1889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	9.4	13.9	25.7	48.3	86	381		381
06009	.0	1.7	4.4	16.6	24.5	52.8	88	229		229
12015	.0	1.6	4.6	13.4	25.1	53.2	88	370		370
18021	.0	3.7	6.4	13.2	30.7	45.9	86	296		296
TOT	0	31	82	187	338	638	87	1276		1276

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.1	.1	.0	5	.0	.3
7/8	.0	.0	.0	.0	.1	.1	.7	.2	.0	15	.0	1.0
6	.0	.0	.0	.0	.1	.2	.3	.1	.1	10	.1	.5
5	.0	.0	.0	.0	.2	.3	.7	.0	.0	18	.1	1.0
4	.0	.0	.0	.1	.7	1.6	.7	.1	.0	47	.1	2.9
3	.0	.0	.1	.0	.7	2.0	1.0	.1	.0	59	.3	3.6
2	.0	.0	.0	.1	1.4	4.1	.8	.0	.0	98	.5	5.9
1	.0	.0	.0	.1	3.1	6.4	.2	.0	.0	151	.7	9.2
0	.0	.0	.1	.5	8.3	9.0	.1	.0	.0	213	1.1	12.8
-1	.0	.0	.1	.7	8.7	2.5	.0	.0	.0	184	1.2	10.8
-2	.0	.0	.1	2.2	8.2	1.7	.0	.0	.0	186	.8	11.3
-3	.0	.0	.0	3.1	7.0	.8	.0	.0	.0	167	.7	10.2
-4	.0	.0	.4	3.7	3.5	.1	.0	.0	.0	118	.2	7.5
-5	.0	.0	.6	2.7	1.7	.1	.1	.0	.0	79	.1	5.0
-6	.0	.0	1.0	1.8	.5	.1	.0	.0	.0	50	.3	2.9
-7/-8	.0	.3	2.0	2.2	.4	.1	.0	.0	.0	76	.5	4.5
-9/-10	.0	.5	.9	.2	.3	.0	.0	.0	.0	29	.1	1.8
-11/-13	.1	.5	.5	.2	.1	.0	.0	.0	.0	20	.1	1.2
-14/-16	.0	.1	.1	.0	.1	.0	.0	.0	.0	4	.1	.2
TOTAL	1	21	87	267	692	383	70	10	2	1533	107	1426
PCT	.1	1.4	5.7	17.4	45.1	25.0	4.6	.7	.1	100.0	7.0	93.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.9	.0	.0	.0	.0		1.3	.1	1.6	.0	.0	.0	.0		1.7
1-2	.0	.3	.2	.0	.0	.0		.7	.1	1.3	.8	.0	.0	.0		2.3
3-4	.1	.3	.6	.1	.0	.0	1.2		.0	.1	2.0	.7	.0	.0		2.8
5-6	.0	.1	.0	.2	.0	.0	.3		.0	.0	.3	.2	.0	.0		.6
7	.0	.1	.2	.1	.0	.0	.5		.0	.0	.1	.1	.0	.0		.2
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.1	.0	.0	.2		.0	.0	.1	.0	.1	.0		.2
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	1.9	1.2	.8	.0	.0	4.1		.2	3.1	3.4	1.1	.1	.0		7.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	3.4	.1	.0	.0	.0		4.0	.1	1.6	.0	.0	.0	.0		1.7
1-2	.1	1.8	2.7	.0	.0	.0	4.6		.0	1.1	1.7	.0	.0	.0		2.8
3-4	.0	.2	3.5	2.0	.0	.0	5.8		.1	.6	1.0	.6	.0	.0		2.3
5-6	.0	.0	.6	.3	.0	.0	.9		.0	.0	.7	.4	.2	.0		1.2
7	.0	.0	.1	.2	.0	.0	.3		.0	.0	.4	.6	.1	.0		1.1
8-9	.0	.0	.2	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0		.3
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0		.3
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.4	7.3	2.3	.0	.0	15.9		.2	3.3	3.7	2.1	.9	.0		10.3

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0040 ASTORIA
46.0N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	2.1	.0	.0	.0	.0	2.2	.2	.9	.0	.0	.0	.0	1.1	
1-2	.0	1.5	2.5	.0	.0	.0	4.1	.0	1.0	.9	.0	.0	.0	2.0	
3-4	.0	.1	3.2	1.3	.0	.0	4.6	.1	.6	1.8	.7	.0	.0	3.2	
5-6	.0	.0	2.2	2.2	.3	.0	4.7	.0	.1	1.7	1.1	.4	.0	3.4	
7	.0	.0	1.4	2.0	.2	.1	3.8	.0	.0	.9	.4	.2	.0	1.5	
8-9	.0	.0	.1	.6	.1	.0	.9	.0	.0	.2	.4	.1	.0	.7	
10-11	.0	.0	.2	.5	.1	.0	.8	.0	.0	.5	.2	.1	.0	.8	
12	.0	.1	.0	.1	.2	.0	.4	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.1	.2	.1	.0	.4	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.2	.0	.2	.0	.5	.0	.0	.1	.0	.2	.0	.4	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.8	10.0	6.9	1.5	.3	22.7	.3	2.7	6.2	2.9	1.3	.0	13.4	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.6	.1	.0	.0	.0	.8	.0	.9	.0	.0	.0	.0	1.0	
1-2	.1	1.1	.6	.0	.0	.0	1.8	.0	.6	.5	.0	.0	.0	1.2	
3-4	.0	.7	1.1	.1	.0	.0	2.0	.1	.2	1.6	.4	.0	.0	2.4	
5-6	.0	.1	.3	.7	.1	.0	1.2	.0	.1	.5	1.4	.1	.0	2.2	
7	.0	.0	.1	.2	.3	.0	.6	.0	.0	.3	.4	.2	.0	.9	
8-9	.0	.1	.1	.0	.0	.0	.2	.0	.0	.1	.2	.0	.0	.4	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0	.4	.2	.0	.6	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.1	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	2.7	1.4	.6	.0	7.6	.2	1.9	3.1	3.5	.8	.0	9.5	91.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	12.3	.2	.0	.0	.0	22.6	
1-2	.5	9.0	10.0	.0	.0	.0	19.5	
3-4	.5	2.9	14.7	5.8	.0	.0	24.0	
5-6	.0	.5	6.3	6.6	1.1	.0	14.5	
7	.0	.1	3.5	4.0	1.1	.1	8.9	
8-9	.0	.1	.9	1.2	.2	.0	2.4	
10-11	.0	.0	1.0	1.3	.4	.0	2.7	
12	.0	.1	.1	.6	.7	.0	1.6	
13-16	.0	.0	.2	1.0	.6	.0	1.8	
17-19	.0	.0	.4	.2	1.1	.0	1.7	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.2	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	29.1	37.3	20.8	5.4	.4	100.0	822

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.3	5.0	17.3	12.4	3.4	1.4	.9	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	512	4
6-7	.0	2.3	5.0	8.6	3.1	2.0	2.6	1.4	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	350	6
8-9	.0	1.0	3.2	3.5	3.1	2.0	1.3	1.0	1.4	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	220	7
10-11	.0	.2	.3	1.0	.6	.8	1.0	.8	.6	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	69	9
12-13	.0	.0	.1	.2	.2	.5	.4	.3	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	31	11
15-17	.0	.0	.0	.2	.2	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
INDET	.6	1.4	.2	.8	.6	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	4
TOTAL	12	123	326	332	163	87	81	48	42	19	4	7	1	0	0	0	0	0	0	1245	6
PCT	1.0	9.9	26.2	26.7	13.1	7.0	6.3	3.9	3.4	1.5	.3	.6	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	1.4	1.2	.0	.0	.0	.0	4.0	.6	.0	4.4	.0	.9	.0	90.0
NE	1.2	1.2	3.2	.0	.0	.0	.0	3.5	.0	.0	3.8	.0	.6	.0	90.1
E	5.5	.6	7.0	.0	.0	.0	.0	13.2	.8	.0	5.1	.0	.0	.0	80.9
SE	21.2	2.0	9.8	.0	.6	.0	.0	32.4	3.9	.0	6.8	.6	1.5	.0	54.8
S	21.6	1.7	8.4	.0	.0	.0	.0	31.5	3.1	.0	12.5	.5	.1	.8	51.4
SW	14.2	2.9	5.0	.0	.0	.0	.5	22.5	5.0	.0	5.7	.0	.5	.1	66.1
W	6.7	3.5	4.7	.0	.4	.0	.4	14.9	4.4	.0	3.7	.8	.3	.7	73.2
NW	2.0	2.9	1.5	.0	.7	.0	.0	6.8	2.4	.0	1.2	.0	.4	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	.0	.0	92.9
TOT PCT	10.4	2.1	5.1	.0	.2	.0	.1	17.5	2.8	.0	6.0	.3	.5	.3	72.6
TOT OBS:	1738														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	8.4	1.8	5.8	.0	.2	.0	.0	15.5	2.6	.0	7.0	.2	1.0	.4	73.3
06009	9.3	2.0	5.8	.0	.0	.0	.3	17.5	3.8	.0	3.2	.3	.3	.3	74.6
12015	12.4	2.5	4.8	.0	.6	.0	.0	20.2	1.7	.0	6.5	.2	.4	.2	70.8
18021	11.1	2.0	4.0	.0	.0	.0	.3	16.7	3.8	.0	6.6	.5	.5	.3	71.7
TOT PCT	10.4	2.1	5.1	.0	.2	.0	.1	17.5	2.8	.0	6.0	.3	.6	.3	72.5
TOT OBS:	1761														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.2	3.8	.3	.1	.0		9.2	11.8	10.3	11.7	11.9	9.4	9.9	4.7	7.4	7.2	
NE	.2	2.6	2.2	.2	.0	.0		5.2	11.2	4.6	5.3	4.5	4.7	5.7	6.1	5.4	5.3	
E	.2	2.7	3.2	.8	.1	.0		6.9	13.1	3.6	2.9	4.5	5.2	6.6	12.0	10.7	10.0	
SE	.4	2.5	3.8	2.5	.7	.0		9.9	17.7	9.5	7.9	7.7	14.6	10.5	10.2	8.7	16.0	
S	.3	3.4	7.8	7.1	2.1	.3		20.9	20.8	24.6	22.5	20.6	15.6	17.6	21.4	22.0	18.8	
SW	.5	2.9	6.2	2.4	.3	.1		12.4	16.0	11.3	14.1	13.7	13.0	13.6	11.2	12.5	8.8	
W	.4	4.2	6.8	2.3	.7	.0		14.5	15.5	13.2	14.3	17.0	17.7	15.3	9.7	15.3	15.0	
NW	.4	3.6	8.1	2.6	.3	.0		17.0	14.8	19.4	18.0	17.5	18.8	15.1	19.6	13.5	16.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.0							4.0	.0	3.8	3.4	2.5	1.0	5.7	5.2	4.4	2.8	
TOT OBS	133	594	821	363	83	9	1963		15.4	346	206	275	96	350	233	315	142	
TOT PCT	6.8	28.2	41.8	18.5	4.2	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.3	4.5	2.1	.2	.0		9.2	11.8	10.8	11.3	7.8	7.3	
NE	1.5	2.6	1.1	.1	.0		5.2	11.2	4.6	4.5	5.9	5.4	
E	1.6	3.2	1.9	.2	.0		6.9	13.1	3.6	4.6	8.8	10.5	
SE	1.5	3.2	3.7	1.5	.2		9.9	17.7	8.9	9.5	10.4	11.0	
S	1.3	6.1	8.6	4.4	.5		20.9	20.8	23.8	19.3	19.1	21.0	
SW	1.3	8.0	4.1	.9	.1		12.4	16.0	12.3	13.5	12.7	11.4	
W	1.7	7.1	4.4	1.1	.2		14.5	15.5	15.6	17.2	13.0	13.2	
NW	2.0	8.9	4.9	1.1	.1		17.0	14.8	18.8	17.9	16.9	14.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.0						4.0	.0	3.8	2.2	5.5	3.9	
TOT OBS	338	816	604	186	19	1963		15.4	352	371	583	457	
TOT PCT	17.2	41.6	30.8	9.5	1.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE FREQUENCY OF WIND SPEED											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
0000	3.6	3.1	26.3	44.0	18.5	4.0	.5	15.6	100.0	552	
0600	2.2	3.2	27.5	45.8	18.6	2.4	.3	15.3	100.0	371	
1200	5.5	1.5	29.8	39.6	17.5	5.5	.5	15.5	100.0	583	
1800	3.9	3.7	29.1	38.7	19.7	4.4	.4	15.2	100.0	437	
TOT	78	55	554	821	363	83	9	15.4		1963	
PCT	4.0	2.8	28.2	41.8	18.5	4.2	.5		100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION					MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION											TOTAL OBS
	0-2	3-4	5-7	8 & 9	TOTAL OBS		000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	
N	3.7	1.6	2.2	2.4	4.1	4.1	.4	.0	.1	.6	1.4	.6	.4	.0	.1	.0	.0	6.2
NE	1.9	.7	.6	.8	3.5	3.5	.3	.0	.3	.4	.2	.1	.0	.0	.0	.1	.1	2.8
E	1.7	.9	2.0	1.9	4.9	4.9	.3	.2	.2	.8	1.0	.3	.2	.0	.0	.0	.0	3.5
SE	1.0	.5	1.4	5.1	6.5	6.5	.8	.1	.4	2.0	1.3	1.2	.1	.0	.0	.0	.0	2.2
S	.6	1.2	4.8	14.6	7.1	7.1	4.1	.0	.7	5.9	3.6	1.7	.4	.2	.1	.0	.0	4.6
SW	.5	1.6	4.6	5.9	6.5	6.5	1.2	.1	.2	2.4	2.9	1.0	.3	.1	.0	.1	.1	4.2
W	1.7	2.5	6.2	5.5	5.8	5.8	.1	.1	.3	2.3	4.4	1.5	.6	.2	.0	.0	.0	6.4
NW	4.1	1.9	6.7	4.1	5.0	5.0	.2	.1	.2	1.4	3.7	1.7	1.0	.4	.0	.0	.0	8.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	1.0	1.1	1.2	4.4	4.4	.2	.1	.1	.8	.3	.1	.3	.0	.0	.2	.3	11.29
TOT OBS	190	134	335	470	1129	5.7	82	7	24	188	215	94	38	9	2	6	484	1129
TOT PCT	16.8	11.9	29.7	41.6	100.0		7.3	.6	2.1	16.7	19.0	8.3	3.4	.8	.2	.5	41.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	.4	.7	.7	.7	.7	.7	.7	.7
= OR >3000	1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >2500	3.7	4.8	4.8	4.9	4.9	4.9	4.9	4.9
= OR >2000	9.3	12.7	13.1	13.1	13.1	13.1	13.1	13.1
= OR >1000	21.0	30.2	31.7	32.0	32.0	32.0	32.0	32.0
= OR >600	31.7	45.1	48.1	48.6	48.8	48.8	48.8	48.8
= OR >300	32.5	46.7	50.1	50.8	51.0	51.0	51.0	51.0
= OR >150	32.9	47.2	50.6	51.4	51.6	51.6	51.6	51.6
= OR >0	33.2	47.9	52.6	54.4	57.8	58.2	58.8	58.8
TOTAL	377	543	597	617	656	660	667	667

TOTAL NUMBER OF OBS: 1134

PCT FREQ NM <5/8: 41.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
9.1	6.4	9.1	8.3	7.9	7.9	9.4	8.9	27.1	5.9	1290

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.1	.1	.3	.0	.0	.1	.0	.1	.9	
	TOT %	.3	.0	.1	.1	.3	.0	.0	.1	.0	.1	.9	
1/2<1	PCP	.0	.0	.0	.2	.1	.1	.1	.1	.0	.0	.7	
	NO PCP	.1	.1	.2	.3	1.5	.4	.0	.1	.0	.1	2.8	
	TOT %	.1	.1	.2	.6	1.7	.5	.1	.1	.0	.1	3.5	
1<2	PCP	.0	.0	.2	.0	.8	.2	.1	.0	.0	.0	1.2	
	NO PCP	.1	.1	.0	.1	.2	.1	.0	.0	.0	.1	.6	
	TOT %	.1	.1	.2	.1	1.0	.2	.1	.0	.0	.1	1.8	
2<5	PCP	.0	.0	.1	.6	1.5	.6	.4	.0	.0	.0	3.3	
	NO PCP	.0	.0	.1	.4	.6	.2	.2	.0	.0	.1	1.6	
	TOT %	.0	.0	.2	1.1	2.1	.9	.6	.0	.0	.1	4.9	
5<10	PCP	.1	.1	.2	1.4	3.3	1.3	.6	.7	.0	.0	7.8	
	NO PCP	1.3	.6	.6	1.4	3.9	2.2	2.7	2.9	.0	.6	16.3	
	TOT %	1.4	.7	.8	2.8	7.2	3.6	3.3	3.7	.0	.6	24.0	
10+	PCP	.2	.1	.4	.8	1.2	.6	.9	.5	.0	.0	4.7	
	NO PCP	7.2	4.0	4.9	4.2	8.4	6.7	8.9	12.9	.0	3.1	60.3	
	TOT %	7.4	4.1	5.3	5.0	9.6	7.3	9.7	13.3	.0	3.1	65.0	
TOT OBS													1735
TOT PCT		9.4	5.0	6.7	9.6	21.8	12.5	13.8	17.2	.0	4.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2	
	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.0	.1	.1	.2	.0	.1	.1	.0	.2	1.0	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.2	.0	.0	.1	.1	.0	.0	.0	.4	
	11-21	.0	.0	.0	.3	.9	.2	.1	.0	.0	.0	1.0	
	22+	.0	.0	.0	.2	1.2	.2	.0	.1	.0	.0	1.7	
	TOT %	.1	.1	.2	.5	1.6	.5	.1	.1	.0	.1	3.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.0	.1	.1	.3	.1	.1	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.6	
	TOT %	.1	.1	.1	.1	.9	.2	.1	.0	.0	.1	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	
	4-10	.0	.1	.1	.1	.1	.2	.1	.0	.0	.0	.7	
	11-21	.0	.0	.1	.3	.6	.4	.3	.0	.0	.0	2.0	
	22+	.0	.0	.0	.5	1.4	.4	.3	.0	.0	.0	2.6	
	TOT %	.0	.1	.2	1.1	2.1	1.0	.7	.0	.0	.1	5.3	
5<10	0-3	.1	.1	.0	.0	.1	.2	.1	.1	.0	.6	1.2	
	4-10	.3	.2	.2	.6	1.2	.8	.7	1.0	.0	.0	4.9	
	11-21	.8	.4	.4	.8	2.3	1.5	1.4	1.7	.0	.0	9.3	
	22+	.2	.0	.3	1.2	3.3	1.2	1.0	.8	.0	.0	8.3	
	TOT %	1.4	.7	.9	2.6	7.1	3.6	3.3	3.6	.0	.6	23.8	
10+	0-3	.4	.1	.0	.3	.2	.3	.1	.3	.0	3.1	4.8	
	4-10	3.6	2.3	2.3	1.8	2.1	1.8	3.3	4.5	.0	.0	21.6	
	11-21	2.8	1.8	2.4	2.0	4.4	4.1	4.8	6.4	.0	.0	28.7	
	22+	.4	.2	.5	1.1	2.7	1.1	1.8	2.1	.0	.0	9.9	
	TOT %	7.2	4.3	5.3	5.1	9.4	7.3	10.1	13.3	.0	3.1	65.0	
TOT OBS													1840
TOT PCT		9.1	5.3	6.7	9.5	21.4	12.6	14.3	17.1	.0	4.0	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1857-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	7.4	.6	2.8	14.0	16.8	8.5	4.3	1.4	.3	.9	57.0	43.0	351
06009	5.8	.0	1.3	14.8	17.5	6.7	2.7	1.3	.0	.4	50.7	49.3	223
12015	6.9	.6	1.9	17.0	18.6	9.1	2.2	.0	.0	.6	56.9	43.1	318
18021	7.0	1.0	2.0	18.4	19.4	6.7	3.3	.3	.3	.0	58.5	41.5	299
TOT	82	7	25	191	215	94	38	9	2	6	669	522	1191
PCT	6.9	.6	2.1	16.0	18.1	7.9	3.2	.8	.2	.5	56.2	43.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	4.0	1.7	6.1	23.6	63.6	325
06009	1.1	1.9	1.9	4.1	22.7	68.2	362
12015	.7	3.0	.9	5.5	24.1	65.7	560
18021	1.2	3.8	2.4	5.5	24.0	63.1	417
TOT	18	61	31	101	461	1212	1864
PCT	1.0	3.3	1.7	5.4	23.7	65.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.9	12.1	29.4	31.2	39.4	330
06009	6.1	7.5	24.3	29.0	46.7	214
12015	7.3	10.2	30.4	30.7	38.9	303
18021	7.3	10.5	32.1	29.3	38.7	287
TOT	82	117	333	342	459	1134
PCT	7.2	10.3	29.4	30.2	40.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
55/59	.0	.0	.1	.1	.0	.5	.4	.0	13	1.1
50/54	.0	.1	.2	.3	2.0	3.8	6.1	6.5	258	19.0
45/49	.0	.0	.2	1.0	5.4	10.6	17.6	20.9	759	55.8
40/44	.0	.0	.1	.8	3.0	3.2	5.9	8.2	288	21.2
35/39	.0	.0	.0	.0	.2	.1	.6	1.7	36	2.6
30/34	.0	.0	.0	.0	.0	.0	.1	.1	2	.1
TOTAL	0	1	9	31	146	248	417	508	1360	100.0
PCT	.0	.1	.7	2.3	10.7	18.2	30.7	37.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.1	.0	.0	.0	.0	.0
.1	.2	.0	.1	.3	.2	.1	.1	.0	.0
1.6	.8	1.0	2.1	6.8	2.8	1.3	2.2	.0	.4
5.9	2.9	3.0	4.8	11.6	6.9	8.2	10.0	.0	2.4
1.9	1.0	2.4	1.7	2.9	2.5	3.0	4.2	.0	1.6
.1	.1	.4	.3	.1	.2	.9	.5	.0	.1
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
9.6	5.1	6.8	9.0	21.6	12.7	13.5	17.2	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	57	53	48	41	37	28	47.6	555
06009	55	53	52	46	40	37	30	46.1	377
12015	57	52	50	46	40	37	30	45.5	591
18021	61	58	53	47	41	36	30	47.1	459
TOT	62	55	52	47	40	36	28	46.6	1982

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	9.1	17.9	33.3	35.1	84	396
06009	.0	3.4	13.2	19.5	30.1	33.8	83	266
12015	.0	.7	10.4	17.9	27.6	43.3	86	413
18021	.0	4.0	11.0	19.0	31.7	34.3	84	300
TOT	0	42	147	254	421	511	84	1375

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1837-1974

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.1	4	.1	.2
7/8	.0	.0	.0	.0	.0	.1	.1	.1	.0	4	.1	.2
6	.0	.0	.0	.0	.1	.4	.2	.1	.0	13	.1	.7
5	.0	.0	.0	.1	.1	.2	.7	.2	.0	19	.0	1.2
4	.0	.0	.1	.0	.4	.9	.6	.0	.1	33	.1	2.0
3	.0	.0	.1	.1	.7	1.6	1.0	.0	.0	55	.2	3.1
2	.0	.0	.0	.1	2.1	3.5	.2	.1	.0	98	.6	5.4
1	.0	.0	.0	.2	3.7	4.3	.2	.0	.0	139	.8	7.7
0	.0	.0	.0	.5	5.7	6.2	.0	.1	.0	205	1.1	11.4
-1	.0	.0	.0	2.1	7.8	4.6	.0	.0	.0	239	1.2	13.4
-2	.0	.0	.1	1.9	9.9	1.4	.0	.1	.0	219	.5	12.9
-3	.0	.0	.1	2.6	7.6	.7	.0	.0	.0	178	.6	10.3
-4	.1	.1	.2	3.4	4.2	.5	.0	.0	.0	140	.2	8.3
-5	.2	.0	.8	3.8	2.9	.1	.0	.0	.0	126	.2	7.4
-6	.0	.0	.8	2.3	.7	.0	.0	.0	.0	62	.2	3.6
-7/-8	.0	.1	1.5	2.0	.5	.0	.0	.0	.0	68	.0	4.1
-9/-10	.0	.2	1.1	.3	.1	.0	.0	.0	.0	28	.1	1.6
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.0	.1	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	4	11	77	318	762	401	53	10	3	1639	99	1540
PCT	.2	.7	4.7	19.4	46.5	24.5	3.4	.6	.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	
<1	.4	1.8	.0	.0	.0	.0	2.2	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0
1-2	.0	1.8	.0	.0	.0	.0	2.5	.0	.8	.5	.0	.0	.0	1.3	.0	.0	.0
3-4	.0	.8	1.3	.0	.0	.0	2.0	.0	.2	1.0	.0	.0	.0	1.2	.0	.0	.0
5-6	.0	.2	.3	.1	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0
7	.0	.1	.1	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	2.6	.3	.1	.0	8.1	.0	2.7	1.9	.1	.0	.0	4.7	.0	.0	.0

HGT	E								SE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	
<1	.0	2.1	.0	.0	.0	.0	2.1	.1	1.7	.2	.0	.0	.0	2.0	.0	.0	.0
1-2	.0	.8	.9	.0	.0	.0	1.7	.0	.2	.5	.0	.0	.0	.8	.0	.0	.0
3-4	.0	.4	.7	.4	.0	.0	1.4	.0	.1	.5	.4	.0	.0	1.1	.0	.0	.0
5-6	.0	.0	.2	.0	.1	.0	.4	.0	.1	.3	.3	.3	.0	1.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.9	.3	.1	.0	5.8	.1	2.1	1.8	1.9	.8	.0	6.7	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1974

MARCH
TABLE 18 (CONT)

AREA 0040 ASTORIA
46.6N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.1	1.0	.1	.0	.0	.0	1.3
1-2	.0	.6	1.0	.0	.0	.0	1.6	.1	1.0	1.2	.0	.0	.0	2.4
3-4	.0	.2	3.1	2.5	.0	.0	5.8	.0	.5	3.1	.9	.0	.0	4.5
5-6	.0	.1	1.6	3.0	.6	.0	5.3	.0	.2	1.6	1.0	.0	.0	2.8
7	.0	.0	1.6	1.6	.5	.1	3.9	.0	.1	.7	.4	.0	.0	1.2
8-9	.0	.0	.2	1.2	.2	.0	1.6	.0	.1	.2	.6	.0	.0	1.0
10-11	.0	.0	.4	.6	.5	.0	1.6	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	.0	.1	.2	.1	.5	.0	.0	.0	.1	.1	.1	.4
13-16	.0	.0	.0	.0	.4	.1	.9	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.4	.1	.5	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	8.0	9.5	2.8	.6	23.3	.3	3.1	7.1	3.6	.4	.1	14.6

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.1	.0	.0	.0	1.5	.0	3.6	.0	.0	.0	.0	3.6	
1-2	.1	1.3	1.4	.0	.0	.0	2.8	.1	1.9	1.7	.0	.0	.0	3.8	
3-4	.0	.7	2.1	.3	.0	.0	3.1	.0	.9	2.1	.1	.0	.0	3.1	
5-6	.0	.4	1.2	.6	.2	.0	2.5	.0	.6	2.5	.5	.0	.0	3.6	
7	.0	.0	.4	.4	.2	.0	1.1	.0	.0	.7	1.0	.0	.0	1.8	
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.0	.6	.4	.0	.0	1.0	
10-11	.0	.1	.1	.5	.0	.0	.7	.0	.0	.2	.1	.0	.0	.4	
12	.0	.1	.2	.1	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.0	5.8	2.1	.7	.0	12.7	.1	7.0	7.9	2.3	.3	.0	17.5	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	14.4	.5	.0	.0	.0	22.5	
1-2	.5	8.4	8.0	.0	.0	.0	16.8	
3-4	.0	3.7	13.9	4.6	.0	.0	22.2	
5-6	.0	1.6	8.0	5.9	1.3	.0	16.4	
7	.0	.2	3.7	4.1	.8	.1	9.0	
8-9	.0	.4	1.6	2.7	.2	.0	4.9	
10-11	.0	.1	.8	2.0	.9	.0	3.9	
12	.0	.2	.2	.6	.4	.2	1.6	
13-16	.0	.0	.1	.7	1.1	.1	2.0	
17-19	.0	.0	.0	.0	.5	.1	.6	
20-22	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	29.1	36.8	20.1	5.1	.7	100.0	835

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
46	.7	4.8	9.7	11.3	5.9	2.5	1.3	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	512	5
6-7	.0	.9	3.7	6.2	4.4	4.6	3.3	1.2	1.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	354	7
8-9	.1	.9	2.7	5.9	4.5	4.4	3.7	1.6	2.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	369	8
10-11	.0	.2	.8	.6	.9	.3	.7	.4	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	65	8
12-13	.0	.0	.1	.0	.2	.3	.3	.4	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	26	11
15-19	.0	.0	.0	.0	.1	.0	.2	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	8	12
INDT	.7	.1	.1	.4	.8	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	43	6
TOTAL	20	96	236	336	231	170	135	61	67	13	5	7	0	0	0	0	0	0	0	1377	7
PCT	1.3	7.0	17.1	24.4	16.8	12.3	9.8	4.4	4.9	.9	.4	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.2	.9	3.0	.0	.0	.0	.0	5.5	.9	.0	4.5	.0	2.3	.0	86.8
NE	4.1	3.3	.0	.0	.0	.0	.0	7.3	.0	.0	3.3	.0	4.1	.0	85.4
E	4.1	.6	4.4	.0	.0	.0	.0	9.1	.9	.0	3.8	.0	5.3	.0	81.0
SE	15.3	1.4	9.2	.0	.0	.0	.0	26.2	3.3	.0	5.9	.8	.2	.0	63.6
S	20.1	2.0	9.5	.0	.0	.0	.3	31.4	3.7	.3	4.6	.3	.6	.7	58.3
SW	9.3	3.1	7.8	.0	.0	.0	.6	20.6	4.8	.0	4.7	.0	.1	.0	69.7
W	4.6	2.0	5.0	.0	.0	.0	.3	11.6	3.6	.2	2.6	.0	1.0	.4	80.7
NW	2.3	1.0	2.3	.0	.0	.0	.5	6.2	1.8	.1	2.8	.3	1.4	.3	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.0	4.2	.0	93.8
TOT PCT	7.6	1.7	5.2	.0	.0	.0	.3	14.5	2.7	.1	3.8	.2	1.4	.2	77.1
TOT OBS:	1691														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0300	6.3	1.0	4.7	.0	.0	.0	.0	11.9	1.8	.0	3.3	.2	1.4	.2	81.2
0600	8.8	1.8	4.8	.0	.0	.0	.9	18.3	.9	.6	2.4	.0	.6	.0	79.2
1615	9.0	2.6	6.0	.0	.0	.0	.2	17.5	3.6	.0	5.4	.2	1.2	.4	71.7
1621	6.5	1.0	4.9	.0	.0	.0	.3	12.2	3.9	.0	4.2	.3	2.3	.3	76.9
TOT PCT TOT OBS	7.6 1707	1.6	5.2	.0	.0	.0	.3	14.5	2.6	.1	3.9	.2	1.4	.2	77.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL				00	03	06	09	12	15	18	21
N	.3	5.0	9.0	1.0	.0	.0	11.6	12.4	9.2	11.4	14.3	11.3	19.7	7.2	9.2	14.6		
NE	.3	2.1	1.1	.1	.0	.0	3.7	10.6	2.1	.8	2.5	2.8	6.7	7.2	5.2	4.1		
E	.0	2.1	5.1	.7	.0	.0	5.0	13.3	2.7	2.3	2.1	3.5	6.2	6.7	8.4	4.9		
SE	.4	2.4	2.7	1.4	.2	.0	7.2	15.2	3.7	4.1	6.4	12.0	8.3	8.7	8.2	9.5		
S	.8	4.6	6.1	4.0	.9	.2	16.6	17.0	17.9	19.3	14.7	21.1	13.7	17.3	18.1	13.4		
SW	.2	4.0	9.7	2.0	.4	.0	12.3	14.9	17.1	13.8	13.8	9.9	10.6	9.3	9.0	11.9		
W	.4	6.1	7.8	2.1	.2	.0	16.7	13.7	17.8	19.3	17.4	10.6	16.2	16.2	16.5	14.6		
NW	.6	6.9	12.3	2.8	.3	.1	22.9	14.4	26.7	25.1	26.6	26.1	20.7	18.9	20.9	17.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9						3.9	.0	2.9	1.6	2.2	2.8	3.8	6.5	4.4	9.7		
TOT OBS	134	621	804	272	39	4	1874	13.8	347	188	273	71	344	201	316	134		
TOT PCT	7.2	33.1	42.9	14.5	2.1	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+	TOTAL	TOTAL				00	03	06	12	18
N	2.2	6.3	2.9	.2	.0	11.6	12.4	10.0	13.7	12.6	10.8				
NE	.8	2.3	.4	.1	.0	3.7	10.6	1.6	2.3	5.6	4.9				
E	1.1	2.3	1.2	.2	.0	5.0	13.3	2.5	2.4	7.1	7.3				
SE	1.3	2.7	2.4	.7	.0	7.2	15.2	4.6	7.6	8.4	8.6				
S	2.4	5.9	6.0	2.0	.3	16.6	17.0	18.5	16.1	15.0	16.7				
SW	1.4	7.0	3.1	.6	.2	12.3	14.9	15.9	13.0	10.3	9.9				
W	2.9	8.3	4.9	.5	.0	16.7	13.7	16.3	16.0	16.2	15.9				
NW	2.9	11.3	7.8	.6	.1	22.9	14.4	26.1	26.3	20.0	19.8				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	3.9					3.9	.0	2.4	2.3	4.8	6.0				
TOT OBS	337	881	535	90	11	1874		333	344	543	450				
TOT PCT	19.1	47.0	28.5	4.8	.6	100.0		100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1958-1974

APRIL

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.4	3.6	32.3	44.5	14.6	2.4	.2	14.0	100.0	535
00009	2.3	2.3	30.5	46.2	16.6	1.7	.3	13.0	100.0	344
12015	4.8	2.2	33.2	43.3	14.1	2.2	.2	13.8	100.0	543
18021	6.0	4.7	36.0	38.0	13.3	1.8	.2	12.8	100.0	430
TOT	74	60	621	804	272	39	.4	13.8		1874
PCT	3.9	3.2	33.1	42.9	14.5	2.1	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	4.2	1.5	3.5	2.6	4.3	
NE	1.9	.4	.5	.8	3.5	
E	2.0	.2	1.7	1.3	4.5	
SE	.9	.5	2.2	3.0	6.3	
S	.7	1.3	4.8	8.3	6.8	
SW	.8	1.7	4.4	5.6	6.3	
W	1.8	2.2	7.6	5.4	5.9	
NW	5.7	4.5	9.5	5.2	4.8	
VAR	.0	.0	.0	.0	.0	
CALM	.5	.3	1.4	1.0	5.5	
TOT OBS	217	149	417	390	1173	5.5
TOT PCT	18.5	12.7	35.5	33.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.2	.0	.1	1.1	1.0	.9	1.0	.5	.2	.1	6.6	
.0	.0	.0	.3	.2	.2	.1	.0	.1	.0	2.7	
.3	.0	.2	.6	.1	.4	.5	.0	.0	.0	3.3	
.3	.0	.4	1.0	1.4	.4	.4	.0	.0	.1	2.6	
.4	.2	.7	3.8	2.9	1.7	1.0	.1	.1	.0	4.0	
.5	.0	.5	2.2	1.9	1.3	1.3	.2	.0	.2	4.3	
.4	.1	.3	3.8	3.6	1.4	.9	.2	.0	.1	6.2	
.1	.2	.2	3.2	3.7	1.9	1.6	.5	.0	.1	13.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.3	.4	.3	.2	.1	.0	1.5	
.24	.6	.29	1.92	1.76	1.01	.83	.20	.7	.6	32.9	
2.0	.5	2.5	16.4	15.0	8.6	7.1	1.7	.6	.5	43.1	1173
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>50
>4500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3000	2.5	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>2500	7.6	9.5	9.8	9.8	9.8	9.8	9.8	9.8
>2000	13.0	17.5	18.3	18.4	18.5	18.5	18.5	18.5
>1000	22.9	31.3	32.8	33.2	33.4	33.5	33.5	33.5
>600	33.6	46.4	48.7	49.4	49.6	49.7	49.7	49.7
>300	34.8	48.5	51.1	51.9	52.0	52.2	52.2	52.2
>150	34.9	48.9	51.5	52.4	52.5	52.7	52.7	52.7
>0	39.1	49.3	52.4	53.8	54.4	54.7	54.7	54.7
TOTAL	414	582	618	633	642	645	646	646

TOTAL NUMBER OF OBS: 1180

PCT FREQ NM <5/8: 43.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
12.4	4.8	10.0	8.6	8.6	6.5	9.9	12.3	25.3	1.6	124.3

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0040 ASTORIA
48.6N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.1	.4	.0	.1	.1	.0	.0	.9	
	TOT %	.1	.0	.0	.1	.5	.0	.1	.1	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.1	.1	.1	.2	.2	.2	.0	.0	.9	
	TOT %	.2	.0	.1	.1	.1	.2	.2	.2	.0	.0	1.1	
1<2	PCP	.0	.0	.1	.1	.4	.4	.2	.1	.0	.0	1.4	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.1	.0	.1	.5	
	TOT %	.0	.0	.1	.2	.5	.5	.2	.3	.0	.1	1.8	
2<5	PCP	.2	.1	.0	.4	1.2	.3	.3	.3	.0	.0	2.8	
	NO PCP	.0	.0	.0	.1	.2	.1	.2	.1	.0	.1	.8	
	TOT %	.2	.1	.0	.4	1.5	.5	.5	.4	.0	.1	3.6	
5<10	PCP	.1	.1	.2	.8	2.4	1.2	.7	.5	.0	.0	6.0	
	NO PCP	1.9	.4	.6	1.5	2.4	2.4	3.0	4.5	.0	.4	17.1	
	TOT %	2.0	.5	.8	2.8	4.8	3.7	3.7	5.0	.0	.4	23.2	
10+	PCP	.3	.1	.1	.5	1.1	.6	.7	.5	.0	.0	4.1	
	NO PCP	8.6	2.9	3.9	3.6	8.4	7.1	11.3	17.0	.0	2.4	65.2	
	TOT %	8.9	3.1	4.0	4.2	9.5	7.7	12.0	17.5	.0	2.4	69.3	
TOT OBS													1088
TOT PCT		11.5	3.6	9.1	7.2	10.9	12.6	16.7	23.6	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.0	.2	.0	.1	.1	.0	.0	.7	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.1	.4	.0	.1	.2	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.2	.0	.0	.1	.0	.2	.1	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.1	.1	.2	.2	.2	.2	.0	.1	1.2	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.1	.1	.1	.2	.2	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.3	.2	.2	.1	.0	.0	.6	
	TOT %	.0	.0	.1	.2	.5	.5	.5	.4	.0	.1	1.8	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.3	
	4-10	.1	.0	.1	.1	.2	.2	.2	.0	.0	.0	.9	
	11-21	.1	.0	.0	.0	.4	.2	.2	.2	.0	.0	1.1	
	22+	.1	.1	.0	.3	.8	.2	.2	.2	.0	.0	1.7	
	TOT %	.2	.1	.1	.5	1.4	.6	.5	.4	.0	.2	4.0	
5<10	0-3	.1	.0	.0	.1	.1	.0	.0	.1	.0	.5	.8	
	4-10	.7	.2	.3	.5	.9	1.0	1.7	1.1	.0	.0	6.5	
	11-21	.8	.2	.3	.8	1.9	1.7	1.5	2.9	.0	.0	10.0	
	22+	.4	.1	.1	.8	1.7	.8	.4	.8	.0	.0	9.0	
	TOT %	2.0	.5	.7	2.1	4.6	3.5	3.6	4.8	.0	.5	22.3	
10+	0-3	.3	.2	.0	.2	.6	.1	.4	.4	.0	2.8	5.1	
	4-10	4.0	1.9	1.5	1.6	3.0	2.8	4.0	5.4	.0	.0	24.3	
	11-21	4.0	.9	1.8	1.8	3.6	3.5	6.2	9.3	.0	.0	31.1	
	22+	.8	.0	.6	.6	2.3	1.4	1.7	2.1	.0	.0	9.2	
	TOT %	8.9	3.0	4.0	4.1	9.5	7.8	12.2	17.2	.0	2.8	69.6	
TOT OBS													1792
TOT PCT		11.4	3.6	9.2	7.1	10.6	12.5	16.8	23.1	.0	3.7	100.0	

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	2.6	16.1	15.5	5.7	7.0	2.1	1.0	.8	51.8	48.2	386
06009	1.5	1.5	2.5	11.1	13.1	9.1	4.5	2.0	.5	1.5	47.5	52.5	198
12015	4.1	1.0	2.5	16.8	14.0	9.5	6.7	1.0	.3	.0	55.9	44.1	315
18021	1.3	.0	2.0	18.3	15.7	10.7	9.0	1.7	.3	.0	59.0	41.0	300
TOT	24	6	29	192	177	102	84	20	7	6	647	552	1199
PCT	2.0	.5	2.4	16.0	14.8	8.5	7.0	1.7	.6	.5	54.0	46.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	1.1	1.1	3.6	17.4	75.4	928
06009	.6	.9	1.5	3.5	25.7	67.8	342
12015	1.1	1.9	3.0	3.4	25.0	65.7	533
18021	1.2	.7	1.5	5.7	22.7	68.1	405
TOT	20	22	33	72	405	1256	1808
PCT	1.1	1.2	1.8	4.0	22.4	69.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.1	4.0	22.3	31.0	46.7	377
06009	1.5	6.1	19.4	29.1	51.5	196
12015	4.2	7.7	27.4	29.4	43.2	310
18021	1.3	4.4	24.9	35.0	40.1	297
TOT	24	64	281	369	530	1180
PCT	2.0	5.4	23.8	31.3	44.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
60/64	.0	.0	.1	.2	.1	.2	.0	.1	10	.7
55/59	.1	.1	.1	.1	.8	.9	1.0	.9	57	4.2
50/54	.0	.0	.1	.4	2.5	4.4	9.7	9.4	362	26.4
45/49	.0	.0	.0	.9	3.5	12.3	19.2	22.6	802	58.6
40/44	.0	.0	.0	.0	1.2	1.8	2.7	3.9	131	9.6
35/39	.0	.0	.0	.0	.0	.0	.0	.4	6	.4
TOT	1	2	4	23	113	267	447	512	1369	100.0
PCT	.1	.1	.3	1.7	8.3	19.5	32.7	37.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.1	.0	.1	.2	.0	.1	.2	.0	.1
55/59	.6	.1	.2	.7	.6	.3	.8	.7	.0	.1
50/54	3.4	1.0	1.8	2.2	4.7	4.0	3.4	5.1	.0	.9
45/49	6.7	1.7	2.1	3.2	10.7	7.3	10.7	14.9	.0	1.2
40/44	.5	.5	.9	.9	1.2	1.5	1.7	2.1	.0	.4
35/39	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0
TOT	11.2	3.3	5.1	7.1	17.4	13.1	16.8	23.1	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	67	61	57	49	45	41	33	49.7	537
06009	64	57	53	48	43	41	38	47.8	347
12015	59	55	52	47	42	40	37	47.1	532
18021	64	60	55	49	43	42	38	49.2	447
TOT	67	60	55	48	43	41	33	48.5	1863

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	3.2	8.3	19.6	32.4	36.3	84	408
06009	.0	1.9	9.7	20.1	32.8	35.5	84	239
12015	.0	.7	6.6	16.5	32.8	43.3	86	411
18021	.0	2.7	9.3	23.3	32.0	32.7	84	300
TOT	1	29	114	270	448	516	85	1378

PERIOD: (PRIMARY) 1948-1974
(OVER-ALL) 1858-1974

APRIL

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.3	.3	.0	11	.0	.7
9/10	.0	.0	.0	.1	.2	.4	.1	.1	14	.0	.9
7/8	.0	.0	.0	.2	.4	.6	.0	.0	18	.1	1.1
6	.0	.0	.1	.3	.8	.3	.0	.0	23	.0	1.4
5	.0	.0	.1	.4	1.0	.2	.0	.0	28	.0	1.8
4	.0	.0	.3	.9	1.4	.0	.0	.0	42	.3	2.4
3	.0	.1	.4	1.9	1.0	.0	.0	.0	34	.1	3.3
2	.0	.1	.8	4.0	.9	.0	.0	.0	92	.4	5.3
1	.0	.1	1.7	4.8	.3	.0	.0	.0	110	.1	6.8
0	.0	.1	4.1	9.1	.4	.0	.0	.0	220	.7	13.1
-1	.0	.3	6.7	7.3	.1	.0	.0	.0	230	.7	13.8
-2	.0	.3	9.4	2.8	.0	.0	.0	.0	201	.3	12.3
-3	.0	.9	10.3	2.2	.1	.0	.0	.0	214	.5	12.9
-4	.0	.9	6.9	.8	.1	.0	.0	.0	137	.3	8.4
-5	.0	1.6	4.2	.3	.0	.0	.0	.0	96	.1	5.9
-6	.0	2.1	.7	.1	.0	.0	.0	.0	45	.0	2.8
-7/-8	.1	1.9	.4	.1	.0	.0	.0	.0	39	.0	2.5
-9/-10	.5	.3	.1	.0	.0	.0	.0	.0	13	.0	.8
-11/-13	.2	.0	.1	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	13	733	112	6	1	1591	3.5	96.5			
PCT	.8	8.7	46.2	35.1	7.0	1.8	.4	.1	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1969-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.2	.0	.0	.0	3.4	<1	.1	1.9	.0	.0	.0	.0	2.0
1-2	.1	1.6	1.1	.0	.0	.0	2.7	1-2	.0	.2	.4	.0	.0	.0	.6
3-4	.0	.5	1.9	.2	.0	.0	2.6	3-4	.0	.2	.3	.0	.0	.0	.5
5-6	.0	.1	.5	.1	.0	.0	.7	5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.5	.1	.0	.0	.5	7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.1	.3	.0	.0	.4	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.3	4.2	.9	.0	.0	10.5	TOT PCT	.1	2.3	.7	.2	.0	.0	3.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.1	.0	.0	.0	1.7	<1	.4	1.3	.1	.0	.0	.0	2.0
1-2	.0	.3	.1	.0	.0	.0	.5	1-2	.0	.4	.2	.0	.0	.0	.5
3-4	.0	.3	.5	.2	.0	.0	1.0	3-4	.0	.2	.2	.3	.0	.0	1.0
5-6	.0	.1	.3	.1	.0	.0	.6	5-6	.0	.4	.8	.1	.0	.0	.9
7	.0	.0	.3	.1	.0	.0	.1	7	.0	.0	.4	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.0	.5	.0	.0	3.9	TOT PCT	.4	2.1	1.4	1.0	.1	.0	4.9

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	1.6	.0	.0	.0	.0	1.7	.2	1.6	.0	.0	.0	.0	1.8	
1-2	.0	2.0	1.0	.0	.0	.0	3.0	.0	1.7	1.8	.0	.0	.0	3.5	
3-4	.0	1.0	1.5	.5	.0	.0	3.0	.0	.8	2.3	.6	.0	.0	3.7	
5-6	.0	.1	2.2	2.4	.0	.0	4.7	.0	.5	1.3	.6	.1	.0	2.5	
7	.0	.0	.7	1.1	.2	.0	2.0	.0	.0	.5	.3	.0	.0	.9	
8-9	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.1	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.1	.1	.4	.0	.0	.0	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.7	5.6	4.6	1.0	.1	16.1	.2	4.6	6.0	2.1	.2	.0	13.0	

M								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	2.9	.0	.0	.0	.0	3.1	.4	4.5	.2	.0	.0	.0	5.1		
1-2	.0	.9	1.7	.0	.0	.0	2.6	.2	1.7	1.8	.0	.0	.0	3.7		
3-4	.1	2.3	3.2	.3	.0	.0	5.8	.2	1.0	3.3	1.3	.0	.0	7.7		
5-6	.0	.7	1.6	.9	.0	.0	3.2	.0	.5	4.4	1.1	.0	.0	5.9		
7	.0	.0	1.1	.8	.0	.0	1.9	.0	.1	1.7	.5	.0	.0	2.4		
8-9	.0	.0	.6	.3	.0	.0	.9	.0	.0	.5	.1	.0	.0	.7		
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.2		
12	.0	.2	.0	.1	.1	.0	.5	.0	.0	.0	.4	.0	.0	.4		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	6.9	8.6	2.3	.1	.0	18.3	.7	7.6	14.0	3.5	.0	.0	26.0	96.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	19.0	.6	.0	.0	.0	24.7	885
1-2	.2	8.8	8.0	.0	.0	.0	17.0	
3-4	.4	6.2	15.1	3.6	.0	.0	25.3	
5-6	.0	1.9	11.2	5.2	.1	.0	18.5	
7	.0	.1	4.5	3.2	.2	.0	8.0	
8-9	.0	.0	1.2	1.2	.1	.0	2.6	
10-11	.0	.0	.4	.9	.2	.0	1.5	
12	.0	.2	.1	.6	.4	.0	1.3	
13-16	.0	.0	.1	.4	.1	.1	.7	
17-19	.0	.0	.1	.1	.1	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	822
TOT PCT	5.7	36.3	41.4	15.2	1.3	.1	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.0	13.9	13.5	5.5	1.8	1.0	.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	544	5
6-7	.0	1.2	5.8	5.3	5.1	3.9	1.2	1.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	353	6
8-9	.0	1.8	3.9	3.6	4.1	1.9	1.0	.7	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	257	6
10-11	.0	.5	.2	1.0	.6	.8	.3	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	99	8
12-13	.0	.0	.3	.5	.2	.1	.2	.2	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	27	10
>13	.0	.0	.0	.0	.2	.0	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	11	12
INDXT	.4	.2	.6	.2	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	5
TOTAL	18	99	317	373	208	113	55	33	9	7	2	0	0	0	0	0	0	0	0	1283	8
PCT	1.4	7.7	24.7	29.1	16.2	8.8	4.3	2.6	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1857-1973

MAY

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.3	.2	2.2	.0	.0	.0	.0	2.7	.3	.0	7.6	.0	6.0	.3	83.1
NE	2.0	.0	1.0	.0	.0	.0	.0	3.0	.0	2.0	7.5	.0	4.5	.0	84.9
E	2.6	1.3	.0	.0	.0	.0	.0	3.9	2.0	.0	7.2	.0	2.6	.0	84.2
SE	11.3	6.1	7.4	.0	.0	.0	.0	24.8	3.0	.0	10.7	.3	3.6	1.7	55.9
S	10.3	4.6	6.9	.0	.0	.0	.0	21.9	3.4	.0	6.1	.9	3.2	1.7	62.9
SW	7.5	4.2	7.0	.0	.0	.0	.7	19.4	4.5	.0	8.2	.0	1.6	.0	66.3
W	3.5	3.3	2.4	.0	.0	.0	.0	8.9	3.4	.4	4.6	.0	.7	.0	82.0
NW	1.2	.7	2.7	.0	.0	.0	.2	4.8	1.4	.4	7.0	.4	3.7	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	3.8	.0	.0	.0	.0	7.5	1.3	.0	19.0	.0	7.5	.0	68.8
TOT PCT	3.7	2.0	3.6	.0	.0	.0	.1	9.5	2.1	.2	7.3	.2	3.6	.4	76.8
TOT OBS:	1709														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.3	1.6	3.7	.0	.0	.0	.0	8.4	2.1	.2	7.4	.2	4.7	.4	76.5
06009	4.2	1.8	3.3	.0	.0	.0	.0	9.2	1.2	.3	5.7	.0	2.1	.3	81.3
12015	4.6	1.9	3.0	.0	.0	.0	.4	12.0	2.1	.4	8.2	.2	3.0	.4	73.9
18021	3.0	3.2	2.2	.0	.0	.0	.0	8.4	3.0	.0	7.9	.3	4.0	.2	76.0
TOT PCT TOT OBS:	3.8 1751	2.1	3.7	.0	.0	.0	.1	9.7	2.1	.2	7.4	.2	3.5	.3	76.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	0.4	0.5	1.4	.2	.0		17.4	12.7	17.7	13.9	20.4	13.4	17.8	16.7	18.3	13.8	
NE	.3	1.4	1.0	.0	.0	.0		2.7	9.4	.7	1.3	.6	7.5	4.2	4.4	3.8	1.7	
E	.3	1.3	.7	.0	.0	.0		2.5	8.9	1.7	1.0	1.5	.0	2.2	5.2	2.7	7.1	
SE	.3	2.6	2.0	.5	.1	.0		5.5	12.0	2.2	4.6	4.2	6.7	5.0	6.2	4.7	12.3	
S	.7	4.4	4.9	1.6	.4	.1		12.2	13.8	11.7	13.6	12.4	11.9	9.4	11.4	13.7	10.2	
SW	.9	4.1	3.5	.6	.1	.1		8.4	11.0	7.5	7.5	7.9	15.7	8.0	11.3	8.0	7.1	
W	1.7	7.5	5.7	.9	.0	.1		15.8	10.6	18.1	19.5	17.1	17.9	16.4	13.7	10.9	14.4	
NW	1.1	11.2	13.0	3.7	.1	.0		31.1	13.4	37.9	34.9	32.1	29.4	31.8	21.5	29.4	25.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5							4.5	.0	2.5	3.6	3.8	1.5	5.3	7.5	6.4	2.3	
TOT OBS	204	742	766	164	15	4	1895		11.8	354	169	286	47	377	186	326	130	
TOT PCT	10.8	39.2	40.4	8.7	.8	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.3	9.3	4.5	.2	.0				17.4	12.7	16.5	17.4
NE	.9	1.7	.1	.0	.0				2.7	9.4	4.2	3.8
E	1.0	1.3	.2	.0	.0				2.5	8.9	1.5	3.2
SE	1.3	2.8	1.1	.1	.0				5.5	12.0	3.0	4.7
S	2.4	6.2	2.9	.5	.2				12.2	13.8	12.3	10.1
SW	2.5	4.4	1.2	.2	.1				8.4	11.0	7.5	9.1
W	5.0	7.9	2.7	.2	.1				15.8	10.6	18.6	17.3
NW	4.9	17.0	8.9	.4	.0				31.1	13.4	34.9	30.8
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	4.5								4.5	.0	2.9	3.4
TOT OBS	401	959	407	31	7	1895			323	353	363	456
TOT PCT	25.9	50.6	21.5	1.6	.4				100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1857-1973

MAY

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.9	5.2	35.8	43.6	11.7	.8	.2	13.0	100.0	523
06009	3.4	4.5	39.7	41.6	10.2	.3	.3	12.2	100.0	353
12015	6.0	6.7	39.3	40.5	6.4	.9	.2	11.2	100.0	363
18021	5.3	8.3	42.5	39.7	6.8	1.1	.2	10.8	100.0	436
TOT	85	119	742	766	164	15	4	11.8		1895
PCT	4.5	6.3	39.2	40.4	8.7	.8	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.0	3.1	4.0	5.0		4.5
NE	1.0	.9	.5	.7		4.0
E	.4	.5	.7	.7		5.2
SE	.5	.6	1.2	2.7		6.3
S	.5	1.1	4.1	6.0		6.7
SW	.2	.7	3.3	3.4		6.6
W	1.6	2.6	6.2	5.1		5.8
NW	3.2	5.8	9.9	10.1		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.3	.6	1.2	2.8		5.3
TOT OBS	208	199	390	460	1257	5.3
TOT PCT	16.5	15.8	31.0	36.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	1.2	.0	.3	1.1	2.1	2.2	1.0	.0	.1	.1	10.1
NE	.2	.0	.1	.1	.1	.1	.1	.0	.0	.1	2.3
E	.0	.0	.1	.1	.4	.3	.1	.1	.0	.1	1.1
SE	.3	.1	.1	.3	1.1	.7	.3	.0	.1	.1	1.7
S	.7	.1	.6	2.2	2.6	1.9	.8	.0	.1	.1	2.7
SW	.6	.1	.1	1.5	1.4	1.2	.7	.2	.3	.0	1.5
W	.2	.0	.3	2.4	4.1	2.0	.9	.2	.3	.0	5.2
NW	1.2	.2	.4	3.9	4.8	4.4	1.6	.3	.2	.1	13.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.1	.0	.7	.5	.6	.2	.1	.2	.1	2.5
TOT OBS	67	8	23	155	213	168	74	11	16	7	513
TOT PCT	5.3	.6	1.8	12.3	17.1	13.4	5.9	.9	1.3	.6	40.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.3	1.7	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3000	2.0	2.4	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	6.8	8.3	8.6	8.6	8.6	8.6	8.6	8.6
= OR >1000	16.5	21.9	22.3	22.3	22.3	22.3	22.3	22.3
= OR >500	28.7	37.9	38.8	39.0	39.2	39.2	39.2	39.2
= OR >300	36.2	48.8	50.3	50.8	51.5	51.5	51.5	51.5
= OR >150	36.9	50.2	51.7	52.5	53.2	53.2	53.2	53.2
= OR >0	37.0	50.4	52.1	52.9	53.8	53.8	53.9	53.9
TOTAL	37.2	51.0	53.3	54.6	56.5	57.6	59.0	59.2
TOTAL	473	649	678	695	719	733	750	753

TOTAL NUMBER OF OBS: 1272

PCT FREQ NH <5/8: 40.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.3	6.6	7.2	9.4	6.9	7.2	9.3	11.2	26.9	5.1	1325

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1957-1973

MAY

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.8	.2	.1	.2	.1	.1	.0	.6	.0	.4	2.3	
	TOT %	.8	.2	.1	.2	.1	.1	.0	.7	.0	.4	2.4	
1/2<1	PCP	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	.2	.0	.0	.2	.2	.2	.1	.7	.0	.2	1.9	
	TOT %	.2	.0	.0	.3	.4	.4	.1	.7	.0	.2	2.3	
1<2	PCP	.0	.0	.0	.1	.2	.1	.1	.2	.0	.1	.8	
	NO PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.4	
	TOT %	.0	.0	.0	.1	.3	.2	.2	.3	.0	.1	1.2	
2<5	PCP	.0	.0	.0	.3	.5	.6	.1	.1	.0	.1	1.7	
	NO PCP	.1	.0	.0	.2	.4	.2	.3	.1	.0	.1	1.5	
	TOT %	.1	.0	.0	.5	.9	.8	.5	.3	.0	.2	3.2	
5<10	PCP	.3	.1	.1	.5	1.3	.5	1.0	.9	.0	.2	4.8	
	NO PCP	3.7	.8	.5	1.0	2.1	1.6	3.4	6.2	.0	.4	19.8	
	TOT %	4.0	.9	.6	1.5	3.5	2.1	4.4	7.1	.0	.6	24.6	
10+	PCP	.2	.0	.0	.4	.5	.2	.2	.3	.0	.0	1.7	
	NO PCP	12.1	1.8	1.5	2.4	6.3	4.6	10.4	22.1	.0	3.3	66.6	
	TOT %	12.3	1.8	1.5	2.8	6.8	4.8	10.6	22.3	.0	3.3	68.3	
TOT OBS													1706
TOT PCT		17.4	2.9	2.2	5.3	12.0	8.4	15.8	31.4	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.5	
	4-10	.5	.1	.1	.1	.0	.1	.0	.4	.0	.0	1.2	
	11-21	.5	.1	.0	.0	.0	.0	.0	.2	.0	.0	.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.8	.2	.1	.2	.1	.1	.0	.6	.0	.3	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.2	.3	.1	.1	.0	.0	1.0	
	11-21	.2	.0	.0	.0	.2	.1	.0	.5	.0	.0	.9	
	22+	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	TOT %	.2	.0	.0	.3	.4	.3	.1	.7	.0	.2	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.2	.1	.0	.1	.0	.0	.3	
	TOT %	.1	.0	.0	.1	.3	.2	.3	.3	.0	.1	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.0	.0	.1	.2	.2	.1	.1	.0	.0	.8	
	11-21	.1	.0	.0	.1	.5	.4	.1	.1	.0	.0	1.5	
	22+	.0	.0	.0	.3	.2	.2	.2	.0	.0	.0	.9	
	TOT %	.2	.0	.0	.5	.9	.8	.5	.3	.0	.2	3.4	
5<10	0-3	.2	.2	.1	.1	.1	.3	.2	.2	.0	.6	2.1	
	4-10	1.3	.4	.3	.7	1.0	.9	1.7	2.0	.0	.0	8.3	
	11-21	1.8	.3	.2	.6	1.4	.6	1.7	3.2	.0	.0	9.7	
	22+	.6	.0	.0	.1	.9	.4	.5	1.5	.0	.0	4.0	
	TOT %	3.8	.8	.6	1.5	3.5	2.2	4.2	7.0	.0	.6	24.1	
10+	0-3	.7	.1	.1	.2	.5	.5	1.1	.7	.0	3.3	7.2	
	4-10	4.5	.9	.9	1.3	3.1	2.8	5.5	8.5	.0	.0	27.5	
	11-21	6.3	.8	.5	1.0	2.5	1.4	3.8	11.1	.0	.0	27.5	
	22+	1.0	.0	.0	.2	.6	.1	.3	2.3	.0	.0	4.5	
	TOT %	12.6	1.8	1.6	2.8	6.8	4.8	10.7	22.5	.0	3.3	66.7	
TOT OBS													1775
TOT PCT		17.6	2.8	2.3	5.2	12.0	8.5	15.8	31.3	.0	4.6	100.0	

MAY

AREA 0040 ASTORIA
46.6N 124.9WPERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1857-1973

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	3.8	.5	1.4	12.0	16.3	13.0	5.2	.5	1.1	.3	54.1	45.9	368
06009	3.9	.4	1.6	9.8	15.0	16.1	4.7	1.6	2.8	1.2	57.1	42.9	254
12015	7.9	.3	2.3	13.0	17.5	11.8	7.0	.3	.3	.6	60.8	39.2	355
18021	5.1	1.3	1.9	13.4	17.9	14.1	6.4	1.3	1.3	.3	62.9	37.1	313
TOT	68	8	23	157	216	175	76	11	16	7	757	533	1290
PCT	5.3	.6	1.8	12.2	16.7	13.6	5.9	.9	1.2	.5	58.7	41.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.6	2.8	1.8	3.3	20.4	70.1	509
06009	2.0	1.1	.9	2.9	31.5	61.6	349
12015	3.1	2.9	1.5	3.5	25.5	63.6	546
18021	2.9	2.2	.5	3.9	21.8	68.8	413
TOT	44	43	22	62	443	1203	1817
PCT	2.4	2.4	1.2	3.4	24.4	66.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.8	7.1	19.0	35.7	45.3	364
06009	4.0	6.0	17.9	39.4	42.6	251
12015	8.0	10.9	25.1	36.3	38.6	350
18021	5.2	9.1	22.8	41.0	36.2	307
TOT	68	107	272	482	518	1272
PCT	5.3	8.4	21.4	37.9	40.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.1	.1	.3	.7	44	3.8
60/64	.0	.0	.2	.3	.7	1.3	.6	.8	217	19.0
55/59	.0	.0	.0	.3	1.1	4.9	6.1	6.5	675	59.0
50/54	.0	.0	.0	.1	3.0	8.0	21.0	27.0	197	17.2
45/49	.0	.0	.0	.2	.9	3.6	5.4	7.2	4	.3
40/44	.0	.0	.0	.0	.2	.1	.0	.1	1144	100.0
TOT	0	0	2	11	68	203	380	478		
PCT	.0	.0	.2	1.0	9.9	17.9	33.2	41.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.1	.0	.0	.1	.0	.2
.7	.2	.1	.1	.5	.3	.6	1.1	.0	.3
3.1	.5	.3	1.0	3.4	1.6	2.5	5.4	.0	1.3
10.7	1.3	1.4	3.0	7.6	4.0	8.5	19.4	.0	3.1
2.7	.4	.1	.7	1.5	1.5	3.9	5.9	.0	.5
.0	.0	.0	.0	.0	.3	.0	.1	.0	.0
17.3	2.6	1.8	4.7	13.1	7.6	15.4	31.9	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	66	60	53	49	46	44	53.9	536
06009	62	59	56	51	47	43	43	51.4	356
12015	64	60	55	51	47	44	42	50.9	571
18021	66	64	60	53	47	43	42	53.3	439
TOT	68	64	59	52	47	45	42	52.4	1922

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	7.7	19.3	30.7	40.3	85	313		
06009	.0	.5	3.9	17.4	36.7	41.5	87	207		
12015	.0	1.1	2.8	13.4	33.7	49.0	88	359		
18021	.0	.7	9.8	23.6	33.0	33.0	84	276		
TOT	0	13	69	210	384	479	86	1155		

PERIOD: (PRIMARY) 1942-1973
(OVER-ALL) 1857-1973

MAY

TABLE 17

AREA 0040 ASTORIA
46.6N 124.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.2	.4	.2	12	.0	.7
9/10	.0	.0	.0	.0	.5	.4	.1	17	.0	1.0
7/8	.0	.0	.1	.6	1.0	.7	.1	41	.2	2.3
6	.0	.0	.0	.2	1.0	.2	.1	26	.1	1.5
5	.0	.0	.1	1.0	1.5	.2	.0	47	.2	2.7
4	.0	.1	.6	1.5	1.2	.0	.0	54	.2	3.1
3	.0	.1	1.0	2.8	.9	.1	.0	79	.4	4.4
2	.0	.3	2.5	4.4	.7	.0	.0	129	.7	7.2
1	.0	.1	2.4	5.8	.7	.1	.0	149	.4	8.8
0	.0	1.0	8.1	8.4	.7	.0	.0	263	1.3	14.8
-1	.0	.7	10.1	5.0	.0	.0	.0	238	1.2	14.7
-2	.0	2.4	9.4	1.8	.0	.0	.0	222	1.0	12.6
-3	.0	1.7	6.1	1.1	.1	.0	.0	145	.8	8.1
-4	.1	1.5	3.2	.7	.0	.0	.0	90	.4	5.1
-5	.0	.8	2.1	.2	.1	.0	.0	52	.2	3.0
-6	.1	.2	.7	.4	.0	.0	.0	24	.2	1.3
-7/-8	.0	.4	.4	.2	.1	.0	.0	16	.1	.9
-9/-10	.0	.0	.1	.1	.0	.0	.0	3	.0	.2
-11/-13	.0	.1	.0	.1	.0	.0	.0	2	.0	.1
TOTAL	3	151	763	928	141	35	10	1631	118	1513
PCT	.2	9.3	46.8	32.4	8.6	2.1	.6	100.0	7.2	92.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	3.0	.3	.0	.0	.0	3.9	.1	1.9	.2	.0	.0	.0	2.2
1-2	.0	1.2	1.5	.0	.0	.0	2.7	.0	.1	.0	.0	.0	.0	.1
3-4	.2	1.0	3.5	.8	.0	.0	5.5	.0	.0	.2	.0	.0	.0	.3
5-6	.0	.6	1.9	.6	.1	.0	3.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.2	.7	.1	.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.5	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.1	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.4	8.5	1.8	.2	.0	17.7	.1	2.0	.3	.0	.0	.0	2.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.6	.0	.0	.0	.0	.7	.2	.1	.0	.0	.0	.0	1.4
1-2	.0	.2	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.7
3-4	.0	.1	.2	.0	.0	.0	.3	.2	.2	.0	.1	.0	.0	1.1
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.9	.0	.0	.0	1.9	.3	1.7	1.4	.4	.1	.0	4.1

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0040 ASTORIA
46.0N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.2	.1	.0	.0	.0	2.7	.6	3.1	.2	.0	.0	.0	4.0
1-2	.1	.6	.7	.0	.0	.0	1.4	.0	.6	.1	.0	.0	.0	.7
3-4	.0	.2	1.3	.5	.0	.0	2.0	.0	.1	.9	.2	.0	.0	1.2
5-6	.0	.2	1.1	.6	.1	.0	2.0	.0	.1	.2	.1	.0	.0	.4
7	.0	.1	.3	.3	.1	.0	.7	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.1	.2	.3	.1	.0	.7	.0	.1	.2	.1	.1	.0	.5
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
12	.0	.0	.1	.0	.2	.0	.3	.1	.0	.1	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	3.8	1.7	.5	.0	9.9	.7	4.2	1.9	.6	.1	.0	7.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	4.2	.2	.0	.0	.0	5.1	.8	3.9	.2	.0	.0	.0	4.9	
1-2	.4	2.1	1.5	.0	.0	.0	4.0	.6	3.5	2.6	.0	.0	.0	6.1	
3-4	.0	.8	1.6	.7	.0	.0	3.1	.6	2.6	6.7	1.6	.0	.0	10.9	
5-6	.1	1.0	1.3	.3	.0	.0	2.7	.1	1.6	2.3	1.0	.0	.0	5.1	
7	.0	.0	.9	.2	.0	.0	1.1	.0	.3	1.3	.7	.0	.0	2.4	
8-9	.0	.2	.5	.1	.0	.0	.7	.0	.0	.4	.6	.0	.0	1.1	
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.6	.4	.5	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	8.3	6.0	1.4	.0	.0	16.8	1.0	12.0	14.5	4.5	.0	.0	32.1	92.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	19.9	1.3	.0	.0	.0	32.0	
1-2	.7	8.5	7.4	.0	.0	.0	16.5	
3-4	.4	5.1	14.9	3.9	.0	.0	24.2	
5-6	.3	3.5	7.2	2.8	.2	.0	14.0	
7	.0	.7	3.5	1.5	.2	.0	5.9	
8-9	.1	.4	1.9	1.4	.2	.0	4.1	
10-11	.0	.4	.4	.7	.0	.0	1.5	
12	.1	.3	.8	.0	.2	.0	1.4	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	38.9	37.4	10.4	.9	.0	100.0	908

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	8.3	17.3	9.8	4.3	2.2	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	601	4
6-7	.1	1.3	8.0	9.1	5.0	2.9	1.3	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	378	5
8-9	.0	.8	2.5	3.2	3.0	.7	.5	.5	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	154	6
10-11	.0	.2	.8	.8	.5	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
12-13	.0	.0	.3	.0	.2	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
>13	.0	.0	.0	.1	.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	10
INDEX	2.9	.7	1.7	2.6	.8	.6	.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
TOTAL	68	150	406	338	183	91	47	30	11	3	1	0	0	0	0	0	0	0	0	1332	5
PCT	5.1	11.3	30.5	25.4	13.9	6.8	3.5	2.3	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1875-1973

JUNE

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.0	.4	.4	.0	.0	.0	.0	1.9	2.2	.0	6.0	.9	3.5	.0	85.5
NE	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	7.0	.0	91.6
E	10.7	.0	1.5	.0	.0	.0	.0	12.2	3.1	.0	6.1	.0	8.4	.0	70.2
SE	12.0	1.6	11.3	.0	.0	.0	.0	23.9	3.4	.0	5.1	.0	1.8	.0	65.7
S	11.8	2.7	11.1	.0	.0	.0	.0	25.2	3.9	.0	11.1	.0	4.1	.0	55.6
SW	6.1	1.9	8.0	.0	.0	.0	.0	15.9	4.6	.0	7.1	.5	1.6	.0	70.3
W	2.6	.8	5.9	.0	.0	.0	.0	9.3	5.6	.0	4.3	.3	2.4	.0	78.1
NW	1.3	.4	3.2	.0	.0	.0	.0	4.8	1.4	.1	4.9	.4	4.8	.0	83.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	2.4	2.8	.0	.0	.0	.0	7.5	1.4	.5	4.7	.0	1.4	.0	84.4
TOT PCT	3.6	1.1	4.6	.0	.0	.0	.0	9.1	2.7	.1	5.7	.4	3.6	.0	78.4
TOT OBS:	2366														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	2.7	.9	4.4	.0	.0	.0	.0	8.0	1.7	.0	5.5	.3	4.9	.0	79.6
06009	3.4	1.5	4.5	.0	.0	.0	.0	9.2	2.4	.2	6.2	.2	3.2	.0	78.6
12615	4.4	1.0	5.7	.0	.0	.0	.0	11.0	2.8	.0	5.6	.1	2.9	.0	77.5
18621	3.8	.7	3.8	.0	.0	.0	.0	8.1	3.9	.2	6.3	.9	2.9	.0	77.7
TOT PCT TOT OBS:	3.6 2409	1.0	4.7	.0	.0	.0	.0	9.1	2.7	.1	5.9	.4	3.5	.0	78.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.7	8.0	6.6	1.1	.0	.0		16.5	11.6	19.9	11.0	17.5	16.2	18.6	10.6	17.2	18.8	
NE	.0	1.1	.4	.0	.0	.0		1.5	9.1	1.1	.7	1.2	1.4	1.8	2.7	1.4	3.3	
E	.3	.7	.4	.0	.0	.0		1.4	8.8	1.2	.7	.6	.0	.9	3.1	2.4	2.0	
SE	.2	2.0	1.5	.8	.1	.0		4.5	13.2	4.0	6.2	2.9	3.4	4.9	8.0	4.5	4.8	
S	.5	4.8	4.1	.9	.0	.0		10.3	11.4	12.6	10.5	8.5	8.1	7.7	10.1	10.4	19.4	
SW	.6	5.5	2.7	.2	.0	.0		9.0	9.3	9.6	7.7	8.0	9.8	8.5	6.9	10.2	11.3	
W	.8	8.6	4.6	.1	.0	.0		14.2	9.4	13.6	19.0	14.5	20.9	12.8	14.4	12.9	16.5	
NW	1.0	13.3	13.3	2.1	.1	.0		33.8	11.9	33.9	28.3	36.5	28.9	36.1	34.4	29.5	21.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.8							8.8	.0	8.1	6.0	10.3	1.4	8.8	9.8	11.5	2.4	
TOT OBS	331	1180	911	137	5	0	2364		10.2	333	190	477	74	524	184	496	126	
TOT PCT	12.9	46.0	35.5	5.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	3.8	9.6	2.9	.2	.0		16.5	11.6	14.8	17.3	16.5	17.5		
NE	.6	.8	.1	.0	.0		1.5	9.1	1.0	1.2	2.0	1.7		
E	.6	.6	.1	.0	.0		1.4	8.8	1.1	.5	1.5	2.3		
SE	1.0	2.1	1.3	.1	.0		4.5	13.2	4.5	3.0	5.7	4.6		
S	2.7	5.5	2.0	.1	.0		10.3	11.4	12.2	8.5	6.3	12.2		
SW	3.1	5.2	.6	.0	.0		9.0	9.3	9.2	8.2	8.1	10.5		
W	4.5	8.3	1.3	.0	.0		14.2	9.4	14.8	15.4	13.2	13.6		
NW	6.3	20.4	6.7	.4	.0		33.8	11.9	34.9	36.8	35.6	27.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	8.8						8.8	.0	7.6	9.1	9.0	9.6		
TOT OBS	809	1348	386	20	1	2564		10.2	683	551	708	622		
TOT PCT	31.6	52.6	15.1	.8	*		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1973-1973

JUNE

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	7.6	2.6	44.9	38.2	6.1	.4	.0	10.8	100.0	683
0600	9.1	2.0	43.4	37.6	6.0	.0	.0	10.5	100.0	551
1200	9.0	5.1	46.9	33.9	5.1	.0	.0	9.9	100.0	708
1800	9.8	6.4	46.8	32.6	4.2	.3	.0	9.5	100.0	622
TOT	228	105	1180	911	137	3	0	10.2		2564
PCT	8.8	4.1	46.0	35.5	5.3	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.4	2.6	4.7	5.9		5.3
NE	.5	.2	.4	.3		4.0
E	.3	.2	.4	.5		5.2
SE	.7	.3	1.1	2.2		6.0
S	.8	.4	2.6	5.9		6.8
SW	.4	.5	2.6	5.1		6.9
W	.8	1.3	4.4	6.7		6.5
NW	5.7	4.1	9.6	14.7		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.3	3.1	4.8		6.1
TOT OBS	276	216	377	920	1989	6.0
TOT PCT	13.9	10.9	29.0	46.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.2	.4	2.0	4.2	.9	.1	.2	.3	7.6	
NE	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.9	
E	.1	.0	.1	.0	.5	.0	.1	.0	.1	.0	.6	
SE	.2	.0	.1	.6	1.0	.5	.4	.1	.0	.0	1.4	
S	.9	.3	.3	1.4	2.1	1.5	.7	.1	.2	.1	2.2	
SW	.6	.1	.2	1.0	2.1	1.9	1.0	.1	.1	.1	1.6	
W	.2	.2	.3	1.4	3.9	2.6	.9	.1	.1	.1	3.6	
NW	.7	.2	.5	2.3	7.5	7.6	2.2	.3	.9	.2	12.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.1	.1	.6	1.7	2.8	1.0	.1	.3	.4	3.4	
TOT OBS	73	18	36	153	414	422	146	16	21	20	670	1989
TOT PCT	3.7	.9	1.8	7.7	20.8	21.2	7.3	.8	1.1	1.0	33.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	1.3	1.9	2.0	2.0	2.0	2.1	2.1	2.1
>3000	1.8	2.7	2.8	2.8	2.8	2.9	2.9	2.9
>2500	7.3	9.7	10.2	10.2	10.2	10.3	10.3	10.3
>2000	18.0	30.1	31.2	31.3	31.4	31.5	31.5	31.5
>1000	30.1	49.1	51.4	51.7	52.1	52.3	52.3	52.3
>600	33.9	56.0	58.8	59.3	59.7	59.9	59.9	59.9
>300	34.6	57.3	60.5	61.1	61.5	61.7	61.7	61.7
>150	34.7	57.9	61.3	61.9	62.3	62.6	62.6	62.6
>0	34.9	58.6	62.4	63.2	63.8	65.5	66.2	66.3
TOTAL	700	1176	1253	1269	1281	1315	1328	1331

TOTAL NUMBER OF OBS: 2007

PCT FREQ NM <5/8: 33.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.0	4.0	7.3	7.2	7.0	7.7	9.1	9.4	37.6	2.7	2052

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1973-1973

JUNE

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.7	.0	.0	.1	.3	.1	.1	.6	.0	.2	2.4	
	TOT S	.7	.0	.0	.2	.6	.2	.1	.7	.0	.2	2.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	.1	.0	.0	.0	.1	.3	.1	.2	.0	.0	.9	
	TOT S	.1	.0	.0	.0	.2	.3	.1	.3	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.5	
	NO PCP	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	TOT S	.1	.0	.0	.1	.3	.1	.0	.1	.0	.0	.9	
2<5	PCP	.0	.0	.1	.3	.9	.4	.2	.4	.0	.2	2.4	
	NO PCP	.2	.0	.0	.1	.2	.2	.5	.4	.0	.2	1.8	
	TOT S	.2	.0	.1	.3	1.1	.6	.7	.8	.0	.4	4.2	
5<10	PCP	.2	.0	.0	.5	1.0	.7	.8	.8	.0	.5	4.6	
	NO PCP	3.7	.3	.2	.8	2.1	2.4	3.8	10.2	.0	2.5	25.7	
	TOT S	3.9	.3	.2	1.3	3.1	3.1	4.6	11.0	.0	3.0	30.3	
10+	PCP	.0	.0	.0	.2	.2	.2	.3	.3	.0	.0	1.2	
	NO PCP	11.5	1.2	1.0	2.5	4.3	4.5	8.4	21.0	.0	3.4	59.6	
	TOT S	11.5	1.2	1.0	2.6	4.5	4.7	8.7	21.2	.0	3.4	60.8	
TOT OBS													2366
TOT PCT		16.6	1.5	1.4	4.6	9.8	9.0	14.0	34.2	.0	9.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.2	.4	
	4-10	.4	.0	.0	.1	.3	.1	.0	.4	.0	.0	1.3	
	11-21	.2	.0	.0	.1	.2	.0	.0	.2	.0	.0	.6	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT S	.7	.0	.0	.2	.6	.2	.1	.6	.0	.2	3.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.1	.1	.2	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.2	.1	.1	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.0	.0	.0	.2	.3	.1	.3	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT S	.1	.0	.0	.1	.4	.1	.0	.1	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	.5	
	4-10	.2	.0	.0	.1	.4	.4	.4	.6	.0	.0	2.1	
	11-21	.0	.0	.0	.1	.4	.2	.3	.2	.0	.0	1.3	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT S	.2	.0	.1	.3	1.1	.6	.8	.9	.0	.4	4.3	
5<10	0-3	.2	.0	.1	.1	.2	.2	.3	.3	.0	2.8	4.1	
	4-10	1.9	.2	.0	.5	1.4	2.0	2.4	4.5	.0	.0	12.8	
	11-21	1.5	.0	.1	.5	1.4	.8	1.6	5.2	.0	.0	11.1	
	22+	.3	.0	.0	.3	.1	.1	.0	.7	.0	.0	1.5	
	TOT S	3.8	.3	.2	1.3	3.1	3.0	4.3	10.6	.0	2.8	29.5	
10+	0-3	.4	.0	.1	.1	.2	.3	.3	.3	.0	3.3	7.4	
	4-10	3.3	.8	.6	1.4	2.5	2.7	5.7	9.8	.0	.0	28.8	
	11-21	3.0	.4	.2	.7	1.8	1.5	2.7	9.9	.0	.0	22.2	
	22+	.9	.0	.0	.3	.3	.1	.1	1.3	.0	.0	3.2	
	TOT S	11.6	1.2	1.0	2.6	4.9	4.6	8.8	21.5	.0	3.3	61.7	
TOT OBS													2458
TOT PCT		16.5	1.5	1.4	4.5	10.2	8.9	14.1	34.1	.0	8.9	100.0	

PERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1975-1973

JUNE

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	2.5	.7	1.4	7.2	20.1	17.1	7.4	.7	.9	.7	58.8	41.2	556
06009	4.4	.7	1.8	6.2	18.5	23.7	8.1	.4	.2	.9	64.8	35.2	455
12015	4.4	1.1	1.5	9.0	24.2	19.6	7.0	1.3	1.3	.6	69.9	30.1	542
18021	3.4	1.1	2.0	7.7	19.5	25.3	6.9	.6	1.9	1.9	71.0	29.0	466
TOT	74	18	36	153	418	427	148	16	22	20	1232	687	2019
PCT	3.7	.9	1.8	7.6	20.7	21.1	7.3	.8	1.1	1.0	66.0	34.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	1.9	1.2	1.0	3.3	25.7	66.8	668
06009	3.1	1.5	.9	4.4	32.5	57.5	544
12015	2.3	1.0	1.0	5.7	29.8	60.2	704
18021	2.6	1.0	1.0	3.6	31.3	60.2	581
TOT	62	29	25	107	741	1533	2497
PCT	2.5	1.2	1.0	4.3	29.7	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	2.5	5.2	14.9	44.2	40.8	556
06009	4.5	8.1	17.9	48.3	33.8	447
12015	4.4	7.6	20.2	50.6	29.3	540
18021	3.4	8.2	17.9	54.1	28.0	464
TOT	74	144	355	986	666	2007
PCT	3.7	7.2	17.7	49.1	33.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
70/74	.0	.0	.0	.0	.1	.0	.0	.1	2	.2
65/69	.0	.0	.0	.2	.3	.3	.3	.5	25	1.9
60/64	.0	.0	.1	.2	1.4	3.0	3.7	2.1	134	10.4
55/59	.0	.0	.0	.5	2.6	10.8	19.9	24.2	746	58.0
50/54	.0	.0	.0	.2	1.3	3.9	10.6	13.2	379	29.1
45/49	.0	.0	.0	.0	.1	.1	.0	.2	4	.3
TOTAL	0	0	1	13	77	233	443	520	1287	100.0
PCT	.0	.0	.1	1.0	6.0	18.1	34.4	40.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
65/69	.1	.1	.3	.0	.5	.3	.2	.3	.0	.2
60/64	1.3	.2	.3	.4	1.2	1.0	1.9	3.0	.0	1.1
55/59	8.5	.8	.7	3.4	5.9	5.2	9.6	20.6	.0	3.3
50/54	4.3	.3	.4	1.7	2.5	2.0	5.1	11.7	.0	1.0
45/49	.1	.0	.0	.0	.0	.0	.2	.1	.0	.0
TOTAL	14.3	1.5	1.7	5.5	10.1	8.6	17.0	35.6	.0	5.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	73	67	64	58	52	50	48	58.0	686
06009	68	64	61	55	51	50	46	55.7	555
12015	68	62	59	55	51	50	46	55.0	724
18021	75	66	63	57	52	50	46	57.0	622
TOT	75	66	63	56	52	50	46	56.4	2587

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	1.5	8.2	19.7	30.3	40.3	65	330		
06009	.0	.7	4.5	17.9	36.6	40.3	86	268		
12015	.0	.2	3.6	14.7	36.2	45.2	88	414		
18021	.0	2.1	8.2	20.9	34.2	34.6	84	292		
TOT	0	14	78	235	448	529	86	1304		

JUNE

AREA 0000 ASTORIA
46.7N 124.8WPERIOD: (PRIMARY) 1957-1973
(OVER-ALL) 1875-1973

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.2
11/13	.0	.0	.0	.0	.2	.4	.0	.0	16	.0	.7
9/10	.0	.0	.1	.2	.3	.5	.0	.0	19	.0	.8
7/8	.0	.0	.2	.3	.5	.6	.0	.0	51	.1	2.1
6	.0	.0	.2	.4	.6	.3	.0	.0	37	.1	1.5
5	.0	.0	.6	1.3	1.5	.0	.0	.0	79	.1	3.3
4	.0	.1	.6	2.1	1.7	.1	.0	.0	105	.1	4.4
3	.0	.1	1.7	3.0	1.5	.1	.0	.0	148	.3	6.1
2	.0	.2	3.4	3.5	.9	.0	.0	.0	184	.4	7.6
1	.0	.3	5.3	5.3	.8	.0	.0	.0	268	.6	11.1
0	.0	.8	7.8	4.9	.3	.0	.0	.0	313	1.0	12.6
-1	.0	1.3	9.7	3.4	.2	.0	.0	.0	334	.8	13.7
-2	.0	1.3	7.7	3.1	.2	.0	.0	.0	285	.6	11.8
-3	.0	.9	6.4	1.4	.0	.0	.0	.0	201	.6	8.2
-4	.0	1.3	3.5	.4	.0	.0	.0	.0	121	.6	4.7
-5	.1	1.0	1.7	.1	.0	.0	.0	.0	69	.2	2.8
-6	.1	.3	.5	.2	.0	.0	.0	.0	27	.0	1.2
-7/-8	.2	.4	.3	.1	.0	.0	.0	.0	25	.1	1.0
-9/-10	.1	.0	.2	.0	.0	.0	.0	.0	8	.0	.3
TOTAL	12	183	1138	687	224	48	1	1	2297	5.9	94.1
PCT	.5	8.0	49.5	29.9	9.8	2.1	.2	.0	100.0		

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.2	.0	.0	.0	.0	4.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.8	1.4	.0	.0	.0	4.2	.0	.3	.2	.0	.0	.0	.5
3-4	.0	1.7	3.3	.4	.0	.0	5.4	.0	.1	.0	.0	.0	.0	.2
5-6	.0	.7	1.5	.3	.0	.0	2.5	.0	.2	.0	.0	.0	.0	.2
7	.0	.3	.5	.3	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	9.0	7.0	1.1	.0	.0	17.9	.0	1.2	.4	.0	.0	.0	1.6

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.5	.0	.0	.0	.0	.6
1-2	.0	.2	.1	.0	.0	.0	.3	.0	.7	.4	.0	.0	.0	1.2
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.3	.5	.3	.0	.0	1.2
5-6	.0	.1	.1	.1	.0	.0	.2	.0	.2	.1	.1	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.1	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.4	.1	.0	.0	1.3	.1	2.2	1.2	.6	.1	.0	6.2

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.7	1.1	.0	.0	.0	2.0	.1	2.3	.8	.0	.0	.0	2.9	
1-2	.0	1.8	1.1	.0	.0	.0	3.0	.1	1.1	.8	.0	.0	.0	2.0	
3-4	.0	.5	1.4	.2	.0	.0	2.1	.1	.6	.2	.0	.0	.0	1.4	
5-6	.0	.5	.3	.0	.0	.0	.9	.0	.2	.2	.0	.0	.0	.4	
7	.0	.1	.3	.1	.0	.0	.5	.0	.1	.1	.0	.0	.0	.2	
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.1	.0	.0	.0	.2	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.6	3.3	.7	.0	.0	9.0	.4	4.4	1.9	.0	.0	.0	6.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	3.2	1.1	.0	.0	.0	3.7	.5	6.3	.1	.0	.0	.0	6.9	
1-2	.1	2.7	1.1	.0	.0	.0	3.9	.3	4.1	3.2	.0	.0	.0	7.6	
3-4	.2	1.4	1.1	.0	.0	.0	2.8	.1	2.8	7.3	.9	.0	.0	11.3	
5-6	.0	1.2	.9	.0	.0	.0	2.1	.0	2.2	3.1	.5	.0	.0	5.7	
7	.0	.1	.3	.0	.0	.0	.4	.0	1.1	1.0	.4	.0	.0	2.4	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.2	.4	.1	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.1	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	8.7	3.7	.1	.0	.0	13.1	.9	17.0	15.6	2.1	.0	.0	35.6	89.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.0	18.0	.3	.0	.0	.0	31.3	
1-2	.9	13.7	8.4	.0	.0	.0	23.0	
3-4	.5	7.7	14.5	1.8	.0	.0	24.6	
5-6	.0	5.1	6.3	1.0	.0	.0	12.4	
7	.0	1.7	2.4	.9	.1	.0	5.1	
8-9	.0	.6	.6	.4	.0	.0	1.6	
10-11	.0	.5	.5	.2	.0	.0	1.2	
12	.0	.1	.2	.3	.0	.0	.7	
13-16	.0	.1	.1	.0	.0	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.4	47.5	33.4	4.7	.1	.0	100.0	1520

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	9.4	16.1	8.7	3.3	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	849	4
6-7	.0	3.2	9.7	7.5	4.4	1.2	1.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	578	5
8-9	.0	1.6	2.8	3.3	2.3	1.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	248	5
10-11	.0	.1	.8	.7	.5	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
12-13	.0	.0	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
>13	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
INDEX	4.7	1.8	2.6	2.6	1.5	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	297	3
TOTAL	145	332	667	477	253	91	70	14	9	2	0	0	0	0	0	0	0	0	0	2060	4
PCT	7.0	16.1	32.4	23.2	12.3	4.4	3.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1886-1973

JULY

AREA 0040 ASTORIA
46.7N 124.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.1	.2	1.3	.0	.0	.0	.0	2.5	.5	.0	6.0	.2	2.3	.0	88.6
NE	1.5	.0	3.1	.0	.0	.0	.0	4.6	3.1	.0	3.8	.0	.0	.0	88.5
E	7.0	.0	9.3	.0	.0	.0	.0	16.3	.0	.0	8.1	.0	4.7	.0	70.9
SE	7.7	1.5	4.8	.0	.0	.0	.0	14.0	3.0	.0	18.8	.0	1.5	1.5	61.3
S	6.5	4.5	6.5	.0	.0	.0	.0	16.3	2.4	.0	15.7	.6	.6	.6	63.9
SW	4.0	3.6	5.6	.0	.0	.0	.0	10.8	2.4	.0	10.4	.8	.8	.0	74.9
W	.0	1.4	2.2	.0	.0	.0	.0	3.6	1.9	.4	8.4	.4	1.8	.0	83.5
NW	.4	.2	1.5	.0	.0	.0	.0	1.9	1.0	.0	8.7	.3	4.0	.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	3.3	.0	.0	.0	.0	4.9	1.6	.0	13.5	.4	1.6	.0	77.9
TOT PCT	1.6	.8	2.5	.0	.0	.0	.0	4.6	1.3	*	9.5	.3	2.7	.1	81.5
TOT OBS:	2288														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.6	.6	2.2	.0	.0	.0	.0	4.3	.6	.0	9.1	.3	3.8	.0	81.8
0600	2.8	.4	2.6	.0	.0	.0	.0	4.8	1.6	.2	7.8	.2	2.2	.0	83.1
1200	.9	1.2	3.3	.0	.0	.0	.0	3.4	1.8	.0	11.1	.5	2.4	.2	78.7
1800	1.1	.9	2.3	.0	.0	.0	.0	4.1	1.3	.0	9.3	.5	2.7	.2	81.9
TOT PCT	1.5	.8	2.6	.0	.0	.0	.0	4.7	1.3	*	9.4	.4	2.8	.1	81.2
TOT OBS:	2391														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	8.4	8.0	1.4	.0	.0		18.8	11.9	19.7	16.5	20.5	17.7	20.2	18.5	20.4	18.1	
NE	.2	1.0	.3	.0	.0	.0		1.5	8.6	.7	1.5	.5	1.9	1.5	4.1	2.0	.9	
E	.1	.7	.2	.0	.0	.0		1.0	7.8	.4	2.7	.8	1.3	.3	1.4	1.4	1.5	
SE	.2	1.7	.9	.2	.0	.0		3.0	10.8	2.6	3.4	2.6	8.9	2.0	2.9	4.2	1.9	
S	.3	4.0	2.5	.8	.0	.0		7.6	11.1	8.0	8.4	4.9	8.9	7.0	8.6	9.9	6.3	
SW	.3	3.5	1.6	.2	.0	.0		5.6	9.0	6.1	9.1	4.6	7.6	4.8	5.1	5.6	5.7	
W	.7	7.0	3.1	.2	.0	.0		10.9	8.7	13.2	12.3	9.2	13.3	10.7	11.4	6.6	20.2	
NW	2.0	19.7	17.2	2.1	.0	.0		41.0	11.2	44.5	41.9	46.6	40.5	41.4	37.5	32.5	42.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.6							10.6	.0	8.8	4.2	10.3	.0	12.0	10.5	17.3	3.0	
TOT OBS	378	1137	838	119	1	0	2473		9.6	498	167	426	79	501	200	467	139	
TOT PCT	15.3	46.0	33.9	4.8	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.4	10.0	4.1	.3	.0		18.8	11.9	15.9	20.1	19.7	19.9		
NE	.6	.8	.2	.0	.0		1.5	8.6	.9	.7	2.3	1.8		
E	.5	.4	.0	.0	.0		1.0	7.8	.9	.8	.6	1.5		
SE	1.0	1.3	.4	.1	.0		3.0	10.8	2.8	3.6	2.2	3.7		
S	2.1	4.1	1.3	.2	.0		7.6	11.1	8.1	5.5	7.5	9.1		
SW	2.3	2.8	.5	.0	.0		5.6	9.0	6.9	5.0	4.9	5.6		
W	4.5	5.8	.6	.0	.0		10.9	8.7	13.0	9.9	10.9	9.6		
NW	9.5	23.9	7.2	.3	.0		41.0	11.2	43.9	43.6	40.3	34.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	10.6						10.6	.0	7.7	8.7	11.6	14.1		
TOT OBS	877	1219	355	22	0	2473		9.6	605	505	701	802		
TOT PCT	35.5	49.3	14.4	.9	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1886-1973

JULY

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	7.7	4.2	44.1	37.1	6.8	.2	.0	10.7	665
0600	8.7	2.2	44.4	38.8	5.9	.0	.0	10.5	505
1200	11.6	6.6	46.6	31.2	4.0	.0	.0	9.1	701
1800	14.1	9.3	48.7	29.2	2.7	.0	.0	8.4	602
TOT	261	117	1137	838	119	1	.0	99.6	2473
PCT	10.6	4.7	46.0	33.9	4.8	.0	.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH ANY HGT	TOTAL OBS
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS		000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+			
N	6.9	2.4	3.7	6.7	4.6	1.0	.2	.7	1.3	3.1	2.6	.3	.1	.1	.1				
NE	.5	.3	.2	.5	4.4	.1	.0	.0	.0	.2	.2	.1	.0	.0	.0				
E	.4	.0	.3	.3	4.7	.4	.0	.0	.1	.2	1.0	.2	.0	.0	.0				
SE	.0	.1	.7	2.2	7.3	1.2	.6	.3	1.3	1.2	1.6	.2	.0	.0	.0				
S	.3	.3	2.5	4.4	7.1	.4	.2	.1	.4	1.2	1.7	.6	.0	.1	.0				
SW	.4	.7	1.5	2.6	6.5	.4	.2	.2	1.2	2.0	1.7	.2	.1	.3	.0				
W	1.3	1.7	2.9	3.9	5.8	2.2	.4	1.0	2.6	5.6	7.1	.0	.0	.0	.0				
NW	12.4	5.1	8.8	19.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
VAR	.0	.0	.0	.0	.0	1.3	.3	.5	.4	.6	3.3	.5	.1	.3	.0				
CALM	2.3	1.4	2.7	4.8	5.6	7.2	1.9	2.8	7.7	14.5	18.6	4.3	.4	.8	.1				
TOT OBS	437	213	418	728	1798														
TOT PCT	24.3	12.0	23.2	40.9	100.0														

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	.9	.9	.9	.9	.9	.9	.9
>5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	5.0	5.6	5.6	5.7	5.7	5.7	5.7	5.7
>2000	19.0	23.6	24.1	24.1	24.1	24.1	24.1	24.1
>1000	24.2	37.4	38.3	38.6	38.8	38.8	38.8	38.8
>800	28.4	44.2	45.5	46.0	46.3	46.3	46.3	46.3
>600	29.4	46.5	47.9	48.6	49.0	49.0	49.1	49.1
>400	29.7	47.3	49.4	50.1	50.9	50.9	51.0	51.0
>200	29.7	47.3	49.4	50.1	50.9	50.9	51.0	51.0
>100	29.7	47.3	49.4	50.1	50.9	50.9	51.0	51.0
>0	30.3	48.4	50.9	52.1	55.1	56.1	57.9	58.2
TOTAL	555	886	933	953	1010	1028	1060	1066

TOTAL NUMBER OF OBS: 1032

PCT FREQ NH <5/8 41.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

n	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.0	5.9	8.0	6.4	5.4	3.9	6.7	9.9	23.2	1021

PERIOD: (PRIMARY) 1950-1973
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JULY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.0	.0	.2	.3	.1	.2	1.1	.0	.5	3.0	
	TOT %	.4	.0	.0	.2	.3	.1	.2	1.1	.0	.5	3.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.0	.0	.3	.6	.3	.3	1.0	.0	.5	3.2	
	TOT %	.2	.0	.0	.3	.7	.3	.3	1.0	.0	.5	3.4	
1<2	PCP	.0	.0	.0	.0	.1	.1	.0	.2	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.1	.1	.1	.3	.0	.1	.8	
	TOT %	.0	.0	.0	.0	.3	.2	.1	.5	.0	.2	1.3	
2<5	PCP	.2	.1	.1	.0	.2	.2	.0	.2	.0	.2	1.2	
	NO PCP	.4	.0	.0	.0	.2	.1	.5	1.0	.0	.2	2.5	
	TOT %	.6	.1	.1	.1	.4	.3	.5	1.2	.0	.4	3.7	
5<10	PCP	.2	.0	.0	.3	.7	.2	.2	.4	.0	.3	2.3	
	NO PCP	4.0	.3	.1	.6	2.2	1.5	3.2	12.9	.0	3.1	27.8	
	TOT %	4.2	.3	.1	.9	2.9	1.7	3.4	13.2	.0	3.4	30.1	
10+	PCP	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	NO PCP	19.1	1.0	.6	1.4	2.7	2.8	6.2	24.7	.0	5.6	58.1	
	TOT %	19.1	1.0	.7	1.5	2.7	2.9	6.3	24.8	.0	5.6	58.6	
TOT OBS													2285
TOT PCT		18.6	1.4	.9	3.0	7.3	9.5	10.9	41.8	.0	10.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.1	.0	.0	.1	.0	.3	.8	
	4-10	.2	.0	.0	.1	.2	.1	.1	.7	.0	.0	1.5	
	11-21	.2	.0	.0	.0	.0	.0	.0	.3	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.5	.0	.0	.2	.3	.1	.2	1.1	.0	.3	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.6	
	11-21	.1	.0	.0	.2	.4	.2	.1	.7	.0	.0	1.7	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.0	.0	.3	.7	.3	.2	1.0	.0	.5	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.2	.0	.3	.0	.0	.6	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.3	.3	.2	.4	.0	.2	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	
	4-10	.3	.0	.1	.0	.1	.3	.4	.7	.0	.0	1.9	
	11-21	.2	.0	.0	.0	.1	.0	.1	.6	.0	.0	1.0	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.6	.1	.1	.1	.4	.3	.5	1.3	.0	.4	3.7	
5<10	0-3	.1	.0	.0	.0	.2	.1	.1	.6	.0	3.4	4.5	
	4-10	1.8	.3	.1	.3	1.5	1.0	2.1	6.1	.0	.0	13.3	
	11-21	1.8	.1	.0	.2	.8	.5	1.1	3.2	.0	.0	9.7	
	22+	.4	.0	.0	.1	.3	.0	.1	.9	.0	.0	1.8	
	TOT %	4.1	.4	.1	.8	2.8	1.6	3.3	12.8	.0	3.4	29.3	
10+	0-3	.7	.1	.0	.1	.0	.2	.4	1.2	.0	5.8	8.6	
	4-10	5.8	.7	.4	1.0	1.9	2.1	4.1	11.9	.0	.0	27.9	
	11-21	5.7	.2	.2	.4	1.0	.7	1.9	10.6	.0	.0	20.7	
	22+	1.0	.0	.0	.0	.0	.1	.1	1.1	.0	.0	2.2	
	TOT %	13.1	1.0	.7	1.5	3.0	3.0	6.3	24.8	.0	5.8	59.4	
TOT OBS													2371
TOT PCT		18.5	1.5	1.0	2.9	7.4	9.7	10.9	41.4	.0	10.7	100.0	

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1880-1973AREA 0040 ASTORIA
46.7N 124.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	4.6	2.9	3.1	7.1	13.8	14.0	2.9	.2	1.1	.2	49.7	50.3	923														
06009	6.4	1.2	3.0	6.4	13.6	17.8	4.7	.2	.5	.0	54.0	46.0	404														
12015	9.8	2.0	3.1	7.8	15.7	18.2	4.9	.8	.4	.0	62.7	37.3	490														
18021	7.6	1.4	1.8	8.7	14.7	24.5	5.0	.2	1.1	.2	63.4	34.6	436														
TOT	131	36	51	139	268	341	80	7	15	2	1070	783	1853														
PCT	7.1	1.9	2.8	7.5	14.5	18.4	4.3	.4	.8	.1	57.7	42.3	100.0														

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	1.7	4.0	1.4	3.8	27.1	62.0	92
06009	3.7	2.0	1.6	4.5	27.5	60.8	510
12015	3.2	4.3	1.6	3.4	32.9	54.6	696
18021	3.8	2.1	1.9	3.3	29.6	59.3	577
TOT	74	78	39	91	717	1436	2435
PCT	3.0	3.2	1.6	3.7	29.4	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	4.6	11.8	20.8	30.3	48.8	518
06009	6.5	10.8	19.3	36.4	44.2	398
12015	9.9	15.4	25.9	38.6	55.5	487
18021	7.7	11.0	21.0	45.5	53.6	429
TOT	131	226	401	685	746	1852
PCT	7.2	12.3	21.9	37.4	40.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/74	.0	.0	.0	.1	.1	.2	.1	.2	8	.6
65/69	.0	.0	.2	.2	.3	.8	1.6	1.1	57	4.3
60/64	.0	.0	.1	.1	2.6	5.7	11.4	8.6	378	28.4
55/59	.0	.0	.0	.0	.8	5.4	21.2	32.5	796	59.9
50/54	.0	.0	.0	.0	.0	.2	1.1	5.3	88	6.6
45/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOT	0	0	4	4	51	165	471	634	1329	100.0
PCT	.0	.0	.3	.3	3.8	12.4	35.4	47.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
9	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.1	.0	.0	.0	.2	.1	.0	.0
3	.2	.1	.1	.2	.4	.7	1.8	.0	.3
6.0	.7	.5	.7	2.4	2.4	3.1	11.3	.0	1.3
11.8	.7	.5	2.1	4.3	3.8	8.1	24.8	.0	3.8
1.3	.1	.0	.1	.7	.3	.3	3.1	.0	.5
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
19.9	1.6	1.1	3.0	7.6	7.0	12.6	41.3	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	74	70	67	60	55	54	48	60.6	677
06009	68	64	63	58	54	52	48	58.2	512
12015	68	64	62	58	54	52	48	57.5	711
18021	76	70	65	59	55	53	48	59.6	603
TOT	76	68	65	59	54	52	48	59.0	2303

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	.5	5.1	16.3	34.3	43.4	87	394		
06009	.0	.8	1.2	10.8	34.4	52.8	90	250		
12015	.0	.2	1.2	8.7	32.8	57.1	91	415		
18021	.0	1.0	7.8	13.4	39.5	38.2	86	306		
TOT	0	8	52	169	479	697	88	1365		

JULY

PERIOD: (PRIMARY) 1950-1973
(OVER-ALL) 1886-1973AREA 0040 ASTORIA
46.7N 124.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WQ FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	*	.0
14/16	.0	.0	.0	.0	.1	.1	.1	.0	6	*	.2
11/13	.0	.0	.0	*	.2	.6	.1	.1	23	*	1.1
9/10	.0	.0	*	.1	.3	.8	.2	.0	31	.1	1.3
7/8	.0	.0	.0	.7	.7	.7	*	*	45	.2	2.0
6	.0	.0	.1	.3	1.2	.7	.0	.0	47	.3	2.0
5	.0	.0	.2	1.0	2.3	.3	.0	.0	80	.2	3.6
4	.0	.0	.1	2.2	2.7	.3	.0	.0	113	.6	4.8
3	.0	.0	.7	3.0	2.9	.4	*	.0	147	.7	6.3
2	.0	.0	1.0	3.8	3.8	.1	.0	.0	223	1.1	9.6
1	.0	*	2.7	8.3	2.6	.1	.0	.0	286	1.7	12.0
0	.0	*	3.2	12.3	2.1	.1	.0	.0	372	2.1	15.7
-1	.0	.1	3.9	8.2	1.0	.0	.0	.0	277	1.4	11.8
-2	.0	.0	3.6	4.9	.8	*	.0	.0	196	1.1	8.3
-3	.0	.1	3.0	2.5	.3	.0	.0	.0	123	.5	5.4
-4	.0	*	1.3	1.3	*	.0	.0	.0	57	*	2.7
-5	.0	.1	.8	.7	.1	.0	.0	.0	34	.1	1.5
-6	.0	*	.3	.4	.0	.0	.0	.0	16	.0	.8
-7/-8	.0	.1	.1	.1	.0	.0	.0	.0	8	.0	.4
-9/-10	.2	.2	.0	.0	.0	.0	.0	.0	8	.0	.4
TOTAL	4		442		440		11		2093	213	1880
PCT	.2	.8	21.1	51.6	21.0	4.5	.5	.2	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	4.2	.4	.0	.0	.0	3.4	.1	.7	.1	.0	.0	.0	.9
1-2	.1	2.8	2.1	.0	.0	.0	3.0	.0	.1	*	.0	.0	.0	.1
3-4	.0	1.2	2.2	.5	.0	.0	3.9	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.5	1.2	.2	.0	.0	1.9	.0	.0	*	.0	.0	.0	*
7	.0	.3	.8	.1	.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	9.0	7.1	1.1	.1	.0	18.1	.1	.9	.1	.0	.0	.0	1.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.1	1.0	.1	.0	.0	.0	1.2
1-2	.0	.1	.3	.0	.0	.0	.3	.1	.8	.5	.0	.0	.0	1.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.2	.1	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.3	.0	.0	.0	1.0	.2	1.7	1.0	.1	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1973

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AREA 0040 ASTORIA
46.7N 124.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	1.9	.1	.0	.0	.0	2.3	.2	1.9	.1	.0	.0	.0	2.2	
1-2	.1	1.2	1.0	.0	.0	.0	2.3	.0	1.0	.6	.0	.0	.0	1.6	
3-4	.0	.3	.8	.6	.0	.0	1.6	.0	.3	.3	.1	.0	.0	.9	
5-6	.1	.1	.1	.1	.0	.0	.4	.0	.2	.1	.1	.0	.0	.4	
7	.0	.1	.2	.7	.0	.0	.3	.0	.2	.2	.1	.0	.0	.5	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.6	2.3	.7	.0	.0	7.1	.2	3.8	1.2	.2	.0	.0	5.5	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.6	3.3	.2	.0	.0	.0	4.1	1.6	10.3	1.0	.0	.0	.0	12.9	
1-2	.1	1.9	.8	.0	.0	.0	2.8	.3	5.7	6.0	.0	.0	.0	12.0	
3-4	.0	.9	.8	.1	.0	.0	1.8	.1	3.3	5.2	.9	.0	.0	9.3	
5-6	.0	.2	.2	.0	.0	.0	.4	.0	.8	2.3	.5	.0	.0	3.6	
7	.1	.1	.1	.0	.0	.0	.2	.0	.7	1.5	.2	.0	.0	2.5	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.2	.1	.0	.0	.0	.3	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	6.3	2.4	.1	.0	.0	9.6	2.1	21.0	16.3	1.6	.0	.0	41.1	86.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.6	23.9	1.9	.0	.0	.0	43.4	
1-2	.7	13.1	11.3	.0	.0	.0	25.1	
3-4	.1	6.3	9.5	2.3	.0	.0	18.2	
5-6	.1	1.9	3.9	.9	.0	.0	6.8	
7	.1	1.4	2.8	.4	.1	.0	4.7	
8-9	.0	.3	.7	.0	.0	.0	.9	
10-11	.0	.0	.4	.1	.0	.0	.4	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.1	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.5	47.0	30.6	3.8	.1	.0	100.0	1370

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	13.4	16.6	9.4	4.7	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	899	4
6-7	.1	3.1	9.0	8.3	3.2	2.2	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	333	5
8-9	.1	1.4	2.2	2.6	1.3	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	5
10-11	.0	.3	.4	.4	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
12-13	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDRY	6.3	1.9	1.0	1.1	.3	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	217	2
TOTAL	161	377	333	413	230	79	46	13	8	1	0	0	0	0	0	0	0	0	0	1883	4
PCT	6.6	20.0	29.4	22.0	12.2	4.2	2.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1861-1973

AUGUST

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	.1	1.9	.0	.0	.0	.0	3.0	.1	.0	14.0	.2	3.1	.0	79.5
NE	1.2	.0	.0	.0	.0	.0	.0	1.2	2.5	.0	9.3	.0	3.1	.0	84.0
E	3.1	.0	6.2	.0	.0	.0	.0	9.2	6.2	.0	20.0	.0	.0	.0	64.6
SE	19.9	4.0	3.7	.0	.0	.0	.0	27.6	3.8	.7	9.7	.7	2.0	.2	55.4
S	12.0	2.2	2.2	.0	.0	.0	.0	16.4	2.2	.0	9.7	.0	1.0	.4	70.4
SW	6.3	2.4	4.4	.0	.0	.0	.0	13.1	.2	.0	10.7	.0	1.5	.0	74.5
W	1.4	2.0	3.1	.0	.0	.0	.0	6.5	.8	.0	11.2	.0	.9	.0	80.7
NW	1.3	.3	1.1	.0	.0	.0	.0	2.7	.9	.1	14.7	.1	2.5	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.3	1.6	.0	.0	.0	.0	3.2	.6	.6	15.1	.0	.6	.0	79.7
TOT PCT	3.7	.9	2.0	.0	.0	.0	.0	6.6	1.1	.2	13.3	.1	1.9	.	76.6
TOT OBS:	2166														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.0	.5	.8	.0	.0	.0	.0	3.3	.5	.0	13.5	.0	2.3	.0	78.3
0600	3.5	.4	1.6	.0	.0	.0	.0	5.5	1.0	.2	10.8	.2	.6	.2	81.6
1200	2.8	1.6	2.9	.0	.0	.0	.0	7.1	1.6	.5	14.3	.2	2.1	.0	74.3
1800	4.4	1.2	2.5	.0	.0	.0	.0	8.1	1.3	.0	14.8	.2	2.7	.0	72.9
TOT PCT TOT OBS:	3.7 2209	.9	1.9	.0	.0	.0	.0	6.5	1.1	.2	13.4	.1	1.9	.	76.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.2	8.8	7.5	1.2	.0	.0		18.7	11.3	13.9	18.8	18.8	20.6	17.4	27.1	20.3	21.9
NE	.2	1.2	.3	.1	.0	.0		1.8	7.7	.9	1.0	.8	1.3	2.2	3.6	3.0	1.9
E	.2	.9	.2	.0	.0	.0		1.4	7.3	1.2	1.0	1.1	.8	1.7	1.4	2.1	1.4
SE	.5	4.0	2.1	.2	.0	.0		6.8	9.3	7.3	3.9	6.5	3.8	8.1	4.3	10.1	4.8
S	.7	4.6	2.7	.4	.0	.0		8.4	10.1	10.0	8.0	4.9	3.8	7.5	11.8	10.5	9.9
SW	.8	3.3	1.0	.0	.0	.0		5.0	7.4	4.3	4.5	5.3	9.4	4.9	5.7	4.4	7.0
W	1.2	6.0	2.3	.1	.0	.0		9.6	8.1	9.2	12.1	12.1	12.5	9.5	8.5	5.7	15.1
NW	1.9	17.2	13.3	1.4	.0	.0		33.8	10.7	38.4	43.8	35.9	36.9	34.0	22.1	27.4	34.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.3							14.3	.0	14.8	7.0	14.5	11.3	16.8	15.8	16.5	3.8
TOT OBS	493	1079	691	82	0	0	2345		8.8	466	172	442	80	446	180	455	104
TOT PCT	21.0	46.0	29.5	3.5	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00	03	06	12	18	21
N	4.7	10.2	3.7	.1	.0		10.7	11.3	15.2	19.1	20.2	20.6	
NE	1.1	.6	.1	.0	.0		1.8	7.7	.9	.9	2.4	2.8	
E	.9	.6	.0	.0	.0		1.4	7.3	1.2	1.0	1.6	2.0	
SE	2.4	3.9	.5	.0	.0		6.8	9.3	6.4	6.1	5.6	9.1	
S	2.7	4.5	1.1	.1	.0		8.4	10.1	9.4	4.7	8.7	10.4	
SW	2.8	2.0	.2	.0	.0		5.0	7.4	4.3	3.9	3.2	4.9	
W	4.5	4.6	.5	.0	.0		9.6	8.1	10.0	12.2	9.2	7.5	
NW	9.9	18.4	5.4	.2	.0		33.8	10.7	39.8	36.1	30.6	28.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	14.3						14.3	.0	12.7	14.0	16.5	14.1	
TOT OBS	1013	1048	273	11	0	2345		8.6	638	322	626	359	
TOT PCT	43.2	44.7	11.6	.5	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1961-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00Z03	12.7	4.9	44.8	31.8	5.8	.0	.0	9.4	100.0	638
06Z09	14.0	4.8	49.0	28.9	3.3	.0	.0	8.7	100.0	522
12Z15	16.5	7.0	43.1	30.5	2.9	.0	.0	8.4	100.0	626
18Z21	14.1	10.2	47.8	26.1	1.8	.0	.0	7.8	100.0	559
TOT	396	157	1079	691	82	0	0	8.6		2345
PCT	14.3	6.7	46.0	29.5	3.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.2	3.2	6.0		4.2
NE	.8	.1	.4	.5		4.1
E	.3	.1	.5	.6		3.9
SE	.3	.5	1.4	5.3		7.1
S	.8	.5	2.3	4.6		6.5
SW	.5	.5	1.4	2.0		6.1
W	1.6	1.1	2.4	2.7		5.4
NW	11.0	4.5	6.9	12.0		4.7
VAR	.0	.0	.0	.0		.0
CALM	3.2	2.4	3.2	6.8		5.4
TOT OBS	461	212	386	724	1783	5.2
TOT PCT	25.9	11.9	21.6	40.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.7	.8	.4	1.0	1.4	1.9	.6	.1	.1	.1	10.4	
NE	.2	.0	.1	.1	.2	.2	.8	.0	.1	.0	1.0	
E	.3	.0	.1	.1	.1	.3	.8	.0	.0	.0	.5	
SE	1.0	.1	.4	.7	1.6	2.0	.4	.0	.0	.1	1.3	
S	1.1	.1	.4	1.5	1.4	.9	.4	.1	.1	.1	2.3	
SW	.3	.8	.1	.5	.7	.8	.2	.1	.0	.1	1.6	
W	.5	.8	.8	.7	1.5	1.1	.3	.1	.1	.1	3.4	
NW	4.4	.2	.6	2.8	4.1	3.9	.3	.2	.2	.1	17.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0	.1	.3	.7	.8	3.3	.8	.1	.2	.8	7.3	
TOT OBS	223	11	43	144	211	254	56	9	14	8	810	1783
TOT PCT	12.5	.6	2.4	8.1	11.8	14.2	3.1	.5	.8	.4	45.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>6	>5	>4	>3
>OR >6500	.7	1.2	1.2	1.2	1.3	1.3	1.3	1.3
>OR >5000	.9	1.7	1.7	1.7	1.8	1.8	1.8	1.8
>OR >3500	3.3	4.7	4.8	4.9	4.9	4.9	4.9	4.9
>OR >2000	10.7	18.1	18.9	19.0	19.1	19.1	19.1	19.1
>OR >1000	16.3	29.0	30.6	30.8	30.9	31.0	31.0	31.0
>OR >600	19.8	35.7	38.4	38.7	38.9	39.0	39.0	39.0
>OR >300	20.4	37.7	40.7	41.1	41.2	41.4	41.4	41.4
>OR >150	20.5	37.9	41.2	41.6	41.9	42.0	42.0	42.0
>OR >0	21.1	39.7	44.0	45.1	47.9	49.7	54.2	54.5
TOTAL	382	719	797	816	867	900	981	987

TOTAL NUMBER OF OBS: 1811

PCT FREQ NM <5/8: 45.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	15.8	7.8	9.3	6.5	5.5	3.8	7.1	8.1	27.6	8.5	1881

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1961-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NO PCP	1.1	.0	.3	.3	.1	.3	.4	2.7	.0	1.2	6.4	
TOT %	1.1	.0	.3	.3	.1	.3	.4	2.7	.0	1.2	6.4	
1/2<1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
NO PCP	.8	.1	.0	.2	.1	.0	.2	1.0	.0	.4	2.8	
TOT %	.8	.1	.0	.2	.1	.0	.2	1.2	.0	.4	3.1	
1<2	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.4	
NO PCP	.4	.0	.0	.0	.1	.0	.0	.1	.0	.1	.8	
TOT %	.4	.0	.0	.2	.1	.0	.1	.2	.0	.1	1.2	
2<5	.0	.0	.0	.7	.5	.2	.1	.2	.0	.2	2.0	
NO PCP	.4	.0	.0	.4	.4	.1	.2	.6	.0	.4	2.6	
TOT %	.5	.0	.0	1.1	.9	.3	.3	.8	.0	.6	4.6	
5<10	.4	.0	.1	1.0	.6	.3	.3	.4	.0	.2	3.3	
NO PCP	4.7	.3	.3	1.7	2.4	1.1	2.7	9.4	.0	2.9	25.5	
TOT %	9.0	.3	.4	2.7	3.0	1.5	2.9	9.8	.0	3.1	28.8	
10+	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.6	
NO PCP	10.8	1.4	.8	2.4	3.8	2.5	9.0	19.7	.0	8.9	55.3	
TOT %	11.0	1.4	.8	2.4	3.9	2.6	9.1	19.8	.0	8.9	55.8	
TOT OBS												2162
TOT PCT	18.7	1.9	1.5	6.9	8.4	4.8	9.1	34.4	.0	14.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.1	.3	.0	1.4	2.0	
	4-10	.6	.0	.2	.2	.1	.1	.2	1.5	.0	.0	3.1	
	11-21	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	.0	.3	.3	.1	.3	.4	2.6	.0	1.4	6.4	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.3	.1	.0	.0	.0	.0	.2	.3	.0	.0	.9	
	11-21	.3	.0	.0	.1	.1	.0	.0	.7	.0	.0	1.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	TOT %	.8	.1	.0	.1	.2	.0	.3	1.1	.0	.4	3.0	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.0	.0	.2	.1	.1	.1	.0	.0	.6	
	11-21	.1	.0	.0	.1	.1	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.0	.0	.2	.3	.1	.2	.2	.0	.1	1.4	
2<5	0-3	.0	.0	.0	.1	.1	.1	.1	.0	.0	.6	.9	
	4-10	.3	.0	.1	.7	.4	.2	.2	.3	.0	.0	2.3	
	11-21	.2	.0	.0	.3	.4	.1	.1	.5	.0	.0	1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	.0	.1	1.1	1.0	.4	.3	1.0	.0	.6	5.0	
5<10	0-3	.5	.1	.1	.1	.2	.3	.3	.6	.0	3.1	5.3	
	4-10	2.6	.2	.2	1.3	1.4	.8	1.6	4.5	.0	.0	12.7	
	11-21	1.6	.1	.1	.9	1.2	.4	.9	3.9	.0	.0	9.1	
	22+	.6	.0	.0	.1	.1	.0	.0	.5	.0	.0	1.2	
	TOT %	5.0	.3	.3	2.7	2.9	1.4	2.9	9.5	.0	3.1	28.2	
10+	0-3	.5	.1	.1	.3	.2	.3	.5	.9	.0	9.1	12.1	
	4-10	4.9	1.0	.3	1.3	2.4	1.7	3.5	10.3	.0	.0	25.8	
	11-21	5.1	.3	.1	.6	1.0	.5	1.2	7.6	.0	.0	16.3	
	22+	.7	.1	.0	.0	.2	.0	.1	.8	.0	.0	1.9	
	TOT %	11.1	1.3	.8	2.3	3.9	2.5	5.2	19.6	.0	9.1	58.1	
TOT OBS													2242
TOT PCT													
	18.8	1.8	1.5	6.8	8.4	4.8	9.2	34.1	.0	14.6	100.0		

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1861-1973

AUGUST

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	12.7	.2	1.6	8.0	7.8	12.3	3.5	.0	.6	.6	47.4	52.6	511
06009	9.1	.2	1.6	6.2	11.8	14.6	3.6	1.1	1.1	.5	49.9	50.1	439
12015	15.1	1.1	2.4	7.6	14.5	13.6	1.6	.4	1.1	.7	58.1	41.9	449
18021	12.4	.9	3.9	9.9	13.6	16.3	3.7	.5	.5	.0	61.6	38.4	435
TOT	227	11	43	145	216	259	57	9	15	8	990	844	1834
PCT	12.4	.6	2.3	7.9	11.8	14.1	3.1	.5	.8	.4	54.0	46.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	7.4	3.2	1.8	4.5	23.2	60.0	625
06009	5.5	1.7	.6	4.0	30.2	57.9	523
12015	6.0	4.6	2.0	4.6	30.3	52.4	603
18021	6.7	2.1	1.1	6.7	29.2	53.9	534
TOT	147	89	32	113	642	1282	2285
PCT	6.4	3.0	1.4	4.9	28.1	56.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	12.9	16.2	26.1	22.8	51.1	505
06009	9.2	11.5	20.7	30.9	48.4	434
12015	15.4	19.5	28.8	31.1	40.1	441
18021	12.5	17.9	30.6	32.5	36.9	431
TOT	227	295	481	526	804	1811
PCT	12.5	16.3	26.6	29.0	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
70/74	.0	.0	.0	.1	.0	.4	.2	.0	8	.6
65/69	.0	.0	.0	.2	.6	1.7	2.0	1.4	73	5.9
60/64	.0	.0	.0	.0	1.6	8.2	15.9	19.3	557	45.0
55/59	.0	.0	.0	.0	.0	2.2	11.2	30.4	542	43.8
50/54	.0	.0	.0	.0	.0	.0	.2	4.3	96	7.8
TOTAL	0	1	1	3	28	154	366	685	1238	100.0
PCT	.0	.1	.1	.2	2.3	12.4	29.6	55.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
75/79	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
70/74	.1	.0	.0	.1	.1	.1	.1	.2	.0	.0
65/69	1.3	.1	.0	.2	.7	.3	.7	1.7	.0	.9
60/64	8.5	.9	.9	2.4	4.6	2.9	4.5	15.0	.0	5.3
55/59	10.9	1.4	.7	2.1	4.9	2.2	4.4	15.1	.0	2.0
50/54	1.3	.1	.0	.2	.3	.2	.5	2.0	.0	.0
TOTAL	22.1	2.5	1.7	5.0	10.4	5.7	10.3	34.1	.0	8.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	72	68	61	54	54	50	61.4	649
06009	72	65	63	59	55	52	50	59.1	523
12015	69	66	63	58	54	52	50	58.5	635
18021	82	72	67	60	55	52	50	60.5	561
TOT	83	70	66	60	55	52	50	59.9	2368

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	3.3	16.0	26.0	53.9	89	362		362
06009	.0	.0	.4	10.6	35.7	53.3	90	255		255
12015	.0	.3	1.1	9.1	28.0	61.6	91	372		372
18021	.0	.4	4.4	14.8	29.5	50.9	88	271		271
TOT	0	5	29	159	369	698	90	1260		1260

PERIOD: (PRIMARY) 1955-1973
(OVER-ALL) 1961-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	W0 FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.0	.1
14/16	.0	.0	.0	.0	.0	.2	.0	.1	.0	7	.0	.3
11/13	.0	.0	.0	.3	.3	.3	.0	.0	.0	19	.0	.9
9/10	.0	.0	.0	.3	.6	.3	.0	.0	.0	26	.1	1.1
7/8	.0	.0	.5	.7	.7	.3	.0	.0	.0	47	.2	2.0
6	.0	.0	.2	.9	.8	.1	.0	.0	.0	38	.1	1.7
5	.0	.1	1.0	2.5	.4	.1	.0	.0	.0	89	.7	3.5
4	.0	.5	1.2	2.4	.6	.0	.0	.0	.0	100	.3	4.4
3	.0	.9	3.6	3.3	.7	.0	.0	.0	.0	180	.6	7.7
2	.1	.4	6.1	3.5	.7	.0	.0	.0	.0	227	1.3	9.4
1	.0	1.7	8.0	3.6	.3	.0	.0	.0	.0	289	1.4	12.3
0	.1	1.8	9.0	4.6	.3	.0	.0	.0	.0	334	2.4	13.4
-1	.1	2.4	6.5	3.5	.0	.0	.0	.0	.0	266	2.0	10.6
-2	.2	1.7	5.0	2.3	.1	.0	.0	.0	.0	197	1.6	7.6
-3	.1	2.0	2.6	1.6	.0	.0	.0	.0	.0	132	1.1	5.1
-4	.1	1.0	1.7	.3	.0	.0	.0	.0	.0	66	.5	2.6
-5	.0	.3	1.0	.4	.0	.0	.0	.0	.0	38	.2	1.6
-6	.0	.3	.7	.1	.0	.0	.0	.0	.0	25	.1	1.0
-7/-8	.0	.2	.6	.1	.0	.0	.0	.0	.0	20	.0	.9
-9/-10	.2	.0	.1	.0	.0	.0	.0	.0	.0	9	.1	.3
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	22	285	1015	643	112	31	0	2	3	2113	285	1828
PCT	1.0	13.5	48.0	30.4	5.3	1.5	.0	.1	.1	100.0	13.5	86.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	3.2	.2	.0	.0	.0	4.3	.2	.0	.0	.0	.0	.0	.7
1-2	.1	3.4	2.3	.0	.0	.0	5.8	.0	.2	.0	.0	.0	.0	.2
3-4	.0	1.8	3.2	.5	.0	.0	5.5	.0	.0	.2	.0	.0	.0	.3
5-6	.0	.4	1.2	.1	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.3	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.8	7.5	.8	.0	.0	18.1	.2	.8	.3	.0	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.4	.0	.0	.0	.0	.7	.2	1.8	.1	.0	.0	.0	2.2
1-2	.0	.1	.1	.0	.0	.0	.3	.1	1.7	.9	.0	.0	.0	2.7
3-4	.0	.2	.1	.0	.0	.0	.3	.0	1.4	1.0	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	.2	.0	.0	.0	1.2	.3	3.1	2.4	.1	.0	.0	7.9

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	2.4	.2	.0	.0	.0	2.9	.5	1.1	.1	.0	.0	.0	1.7	
1-2	.1	1.9	1.7	.0	.0	.0	3.7	.2	.8	.1	.0	.0	.0	.9	
3-4	.0	.5	.9	.2	.0	.0	1.6	.0	.5	.3	.0	.0	.0	.8	
5-6	.0	.1	.3	.2	.0	.0	.7	.0	.1	.1	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.9	3.3	.5	.0	.0	9.1	.5	2.5	.7	.0	.0	.0	3.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	2.2	.0	.0	.0	.0	2.4	1.5	9.3	.7	.0	.0	.0	11.5	
1-2	.0	1.3	.2	.0	.0	.0	1.5	.2	5.8	4.2	.0	.0	.0	10.2	
3-4	.0	.3	.6	.1	.0	.0	1.0	.0	2.6	4.4	.7	.0	.0	7.7	
5-6	.1	.3	.1	.0	.0	.0	.4	.0	.4	1.9	.3	.0	.0	2.6	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.0	1.2	.2	.0	.0	5.7	1.7	18.0	11.8	1.3	.0	.0	32.9	79.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.3	20.8	1.4	.0	.0	.0	46.5	
1-2	.7	15.1	9.3	.0	.0	.0	25.4	
3-4	.0	7.2	10.8	1.4	.0	.0	19.6	
5-6	.1	1.3	4.0	.7	.0	.0	6.0	
7	.0	.1	1.0	.3	.0	.0	1.4	
8-9	.0	.0	.4	.2	.0	.0	.7	
10-11	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	25.1	44.6	27.2	3.1	.0	.0	100.0	1367

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	15.1	16.6	10.6	4.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	913
6-7	.1	6.0	11.3	7.0	3.1	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	532
8-9	.0	1.4	2.9	3.0	1.7	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187
10-11	.0	.5	.5	.3	.5	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
12-13	.0	.0	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
13	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
INDEX	4.9	1.1	.9	.9	.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	155
TOTAL	120	432	615	409	176	67	16	10	3	0	0	0	0	0	0	0	0	0	0	0	1868
PCT	6.4	24.2	32.9	21.9	9.4	3.6	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1860-1973

AREA 0040 ASTORIA
48.8N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	
N	1.5	.8	1.4	.0	.0	.0	.0	3.7	.7	.0	9.4	.5	4.8	.0	80.9
NE	.0	.0	.9	.0	.0	.0	.0	.9	.2	.0	1.8	.0	9.1	.0	88.0
E	3.1	.0	2.5	.0	.0	.0	.0	4.3	.9	.0	8.0	.0	10.2	.0	76.5
SE	9.1	4.5	2.5	.0	.0	.0	.0	15.9	3.8	.0	12.2	.0	3.0	.0	65.1
S	15.0	2.6	4.5	.0	.0	.0	.0	21.4	1.4	.8	12.9	.8	2.3	.0	60.4
SW	8.8	5.4	4.5	.0	.0	.0	.0	18.7	2.6	.0	9.7	.0	3.0	.0	66.0
W	6.8	4.4	3.9	.0	.0	.0	.0	15.2	1.4	.5	5.4	.5	2.2	.0	74.8
NW	1.3	1.4	1.5	.0	.0	.0	.8	4.7	2.1	1.1	8.8	.1	2.8	.0	81.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.8	.0	.0	.0	.0	.0	4.1	.6	.0	10.1	.6	5.3	.0	79.3
TOT PCT	5.3	2.2	2.4	.0	.0	.0	.2	9.8	1.5	.4	9.1	.3	4.0	.0	75.1
TOT OBS:	1856														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	
00003	4.8	1.7	1.7	.0	.0	.0	.2	8.2	1.1	.2	10.0	.4	6.1	.0	74.1
04009	4.3	2.6	2.1	.0	.0	.0	.2	9.0	1.2	.7	9.0	.0	1.2	.0	79.4
12015	5.7	2.2	3.0	.0	.0	.0	.2	10.9	1.7	.7	8.9	.4	2.8	.0	75.1
18021	6.0	1.9	2.4	.0	.0	.0	.0	10.1	1.9	.0	8.9	.5	6.7	.0	71.9
TOT PCT	5.2	2.1	2.3	.0	.0	.0	.2	9.6	1.5	.4	9.2	.3	4.2	.0	75.1
TOT OBS:	1903														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	7.5	9.4	1.6	.0	.0		19.5	12.6		19.7	24.2	23.0	20.0	19.2	16.6	15.9	18.4
NE	.5	2.9	2.4	.1	.0	.0		5.8	9.7		2.6	1.8	3.0	6.4	7.0	10.3	10.6	4.8
E	.6	1.8	1.8	.0	.0	.0		4.2	9.5		.8	1.9	2.5	4.7	4.5	8.6	7.9	3.9
SE	.8	3.5	2.1	1.0	.1	.0		7.5	11.7		5.4	2.6	5.8	6.4	6.7	9.3	13.5	9.2
S	1.0	5.5	5.2	1.6	.2	.0		13.5	12.7		14.1	14.2	15.1	13.4	12.9	12.5	13.0	11.3
SW	.7	5.6	5.4	.3	.1	.0		10.1	10.1		10.5	11.0	9.0	13.4	9.8	8.5	8.2	15.6
W	1.0	5.9	3.5	.2	.1	.1		10.8	10.0		13.2	13.3	10.3	8.4	9.3	8.7	8.4	14.2
NW	1.5	7.4	8.9	1.3	.1	.1		19.4	12.4		25.6	21.3	21.9	23.3	17.4	15.8	12.4	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0		8.0	7.8	9.5	4.0	13.0	9.6	10.2	4.3
TOT OBS	339	832	760	125	15	5	2076		10.5		187	180	338	101	369	218	342	141
TOT PCT	16.3	40.1	36.6	6.0	.7	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18
N	3.2	11.4	4.6	.4	.0			19.5	12.6	21.1	22.3	18.2	16.6
NE	2.0	3.4	.4	.0	.0			5.8	9.7	2.6	3.8	8.3	8.9
E	1.7	2.1	.4	.0	.0			4.2	9.5	1.1	3.0	6.0	6.7
SE	2.7	2.9	1.5	.3	.1			7.5	11.7	4.5	5.9	7.7	12.2
S	3.3	6.5	3.2	.4	.1			13.5	12.7	14.2	14.7	12.8	12.5
SW	3.3	5.5	1.0	.3	.0			10.1	10.1	10.7	10.0	9.3	10.4
W	4.0	5.3	1.3	.0	.1			10.8	10.0	13.8	9.9	9.1	10.1
NW	4.6	9.9	4.4	.3	.2			19.4	12.4	24.3	22.2	16.8	14.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	9.2							9.2	.0	7.9	8.2	11.8	8.5
TOT OBS	704	979	350	36	11	2076			10.5	567	459	587	483
TOT PCT	33.9	47.0	16.9	1.7	.5			100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1860-1973

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	7.9	5.6	36.5	40.9	7.4	1.2	.4	11.4	100.0	567
00009	8.2	6.2	39.9	39.0	6.4	.5	.0	10.8	100.0	439
12015	11.8	7.3	42.2	33.6	4.8	.3	.0	9.6	100.0	587
18021	8.5	9.5	41.8	33.1	5.6	.8	.6	10.2	100.0	483
TOT	191	148	832	760	125	15	5	10.5		2076
PCT	9.2	7.1	40.1	36.6	6.0	.7	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.1	2.4	2.1	3.4		2.9
NE	4.2	.5	1.0	.5		2.2
E	2.6	.3	.6	1.3		3.3
SE	.8	.4	2.3	4.2		6.5
S	1.0	1.0	5.0	6.9		6.6
SW	1.6	.9	3.0	4.1		6.0
W	1.8	1.2	3.2	3.1		5.5
NW	6.9	2.3	5.3	4.0		4.2
VAR	.0	.0	.0	.0		.0
CALM	4.7	1.0	2.3	2.9		3.9
TOT OBS	487	141	349	429	1406	4.5
TOT PCT	34.6	10.0	24.8	30.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	OBS
1.0	.1	.2	.7	1.4	1.1	.1	.1	.0	.1	14.4	
.0	.0	.0	.1	.3	.6	.2	.0	.0	.0	5.0	
.1	.0	.1	.3	.7	.2	.1	.1	.0	.0	3.3	
.6	.3	.1	1.3	1.7	1.3	.4	.2	.0	.0	1.9	
2.5	.3	.7	1.8	2.6	1.2	.6	.2	.2	.0	3.6	
.7	.3	.3	.9	1.9	1.2	.2	.1	.1	.1	3.9	
.5	.1	.6	.3	2.2	1.3	.2	.1	.0	.0	4.0	
1.2	.2	.3	1.3	2.9	1.8	.4	.2	.2	.0	10.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.1	.4	1.4	1.1	.4	.1	.0	.1	6.8	
.97	17	34	100	211	138	39	15	8	4	743	1406
6.9	1.2	2.4	7.1	15.0	9.8	2.8	1.1	.6	.3	52.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>DR >5000	.5	.8	.8	.8	.8	.8	.8	.8
>DR >5000	1.1	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>DR >5000	2.9	4.3	4.5	4.7	4.7	4.7	4.7	4.7
>DR >2000	9.2	13.5	14.2	14.4	14.4	14.5	14.5	14.5
>DR >1000	17.0	27.5	28.7	29.2	29.3	29.4	29.4	29.4
>DR >600	20.8	33.8	35.6	36.3	36.5	36.6	36.6	36.6
>DR >300	21.2	35.6	37.7	38.5	38.8	39.0	39.0	39.0
>DR >150	21.4	36.5	39.0	39.8	40.0	40.2	40.2	40.2
>DR >0	21.4	37.6	40.9	42.5	44.5	45.6	46.9	47.1
TOTAL	306	556	584	606	635	650	669	672

TOTAL NUMBER OF OBS: 1427

PCT FREQ NM <5/8: 52.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
24.3	6.7	9.4	7.2	4.7	5.2	8.0	8.6	20.9	5.1	1467

PERIOD: (PRIMARY) 1943-1973
(OVER-ALL) 1860-1973

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AREA 0040 ASTORIA
46.6N 124.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.8	.8	.2	.3	.3	.1	.2	.3	.0	.4	2.8	
	TOT S	.8	.8	.2	.4	.4	.1	.2	.3	.0	.4	3.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.4	
	NO PCP	.4	.1	.0	.1	.6	.3	.3	.3	.0	.1	2.3	
	TOT S	.4	.1	.0	.1	.7	.3	.4	.3	.0	.1	2.6	
1/4	PCP	.0	.0	.0	.2	.5	.1	.3	.0	.0	.0	1.1	
	NO PCP	.1	.0	.0	.2	.1	.1	.0	.3	.0	.0	.8	
	TOT S	.1	.0	.0	.4	.6	.1	.3	.3	.0	.0	1.8	
2/5	PCP	.1	.0	.0	.3	.6	.2	.2	.0	.0	.1	1.3	
	NO PCP	.7	.1	.0	.4	.5	.2	.1	.5	.0	.1	2.4	
	TOT S	.7	.1	.0	.6	1.1	.4	.3	.5	.0	.2	3.8	
5/10	PCP	.6	.1	.2	.5	1.5	1.1	.8	.7	.0	.2	5.8	
	NO PCP	5.2	.9	1.1	2.0	3.4	2.8	3.1	4.6	.0	1.7	24.6	
	TOT S	5.8	.9	1.2	2.5	4.9	3.9	3.9	5.3	.0	1.9	30.3	
10+	PCP	.0	.0	.0	.1	.1	.2	.3	.1	.0	.1	.9	
	NO PCP	12.3	5.0	2.9	3.3	5.7	4.0	5.5	12.1	.0	6.5	57.3	
	TOT S	12.4	5.0	2.9	3.4	5.8	4.2	5.7	12.2	.0	6.5	58.3	
TOT OBS													1854
TOT PCT		20.1	6.1	4.4	7.5	13.6	9.3	10.9	19.1	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.4	.6	
	4-10	.3	.0	.1	.2	.3	.0	.1	.3	.0	.0	1.3	
	11-21	.1	.0	.1	.1	.1	.0	.1	.2	.0	.0	.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
	TOT S	.7	.0	.2	.4	.3	.1	.2	.3	.0	.4	3.0	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.2	.0	.0	.1	.3	
	4-10	.2	.0	.0	.0	.1	.3	.3	.1	.0	.0	.9	
	11-21	.1	.0	.0	.1	.4	.2	.0	.2	.0	.0	1.0	
	22+	.1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	
	TOT S	.4	.0	.0	.1	.7	.3	.4	.3	.0	.1	2.6	
1/4	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.2	
	4-10	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	11-21	.1	.0	.0	.3	.2	.0	.2	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.4	
	TOT S	.1	.0	.0	.4	.6	.1	.3	.3	.0	.0	1.8	
2/5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	4-10	.3	.0	.0	.2	.2	.3	.4	.2	.0	.0	1.5	
	11-21	.4	.1	.0	.2	.3	.3	.0	.4	.0	.0	1.8	
	22+	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
	TOT S	.7	.1	.0	.6	1.1	.6	.4	.6	.0	.2	4.2	
5/10	0-3	.2	.1	.3	.3	.2	.2	.4	.6	.0	1.9	4.2	
	4-10	1.9	.7	.5	1.1	2.1	1.8	1.9	1.2	.0	.0	11.2	
	11-21	3.2	.2	.4	.6	1.8	1.7	1.2	2.7	.0	.0	11.9	
	22+	.4	.0	.0	.5	.7	.2	.2	.6	.0	.0	2.7	
	TOT S	5.7	1.0	1.2	2.3	4.8	3.8	3.7	5.2	.0	1.9	29.9	
10+	0-3	.5	.3	.3	.4	.5	.3	.5	.8	.0	6.7	10.5	
	4-10	4.6	2.3	1.1	1.9	2.6	3.0	3.3	5.2	.0	.0	24.1	
	11-21	5.7	2.2	1.4	.8	2.4	1.2	2.0	5.5	.0	.0	21.3	
	22+	1.1	.0	.0	.2	.2	.1	.1	.9	.0	.0	2.6	
	TOT S	12.0	4.9	2.8	3.3	5.8	4.5	6.0	12.4	.0	6.7	58.4	
TOT OBS													1971
TOT PCT		19.6	6.0	4.2	7.4	13.5	9.7	11.0	19.3	.0	9.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.7	1.0	1.7	7.9	13.6	9.8	2.6	1.2	1.4	.0	46.9	53.1	418
06009	5.7	1.3	1.6	6.6	15.1	10.4	1.6	1.6	.0	.3	44.2	55.8	317
12015	7.0	1.9	2.4	6.7	14.5	7.5	3.0	1.1	.3	.8	45.2	54.8	372
18021	6.9	.9	3.9	7.2	15.9	11.4	3.9	.3	.3	.0	50.8	49.2	333
TOT	99	18	34	103	212	140	40	15	8	4	673	767	1440
PCT	6.9	1.3	2.4	7.2	14.7	9.7	2.8	1.0	.6	.3	48.7	53.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.4	3.1	.7	4.1	31.5	57.2	556
06009	3.0	1.6	1.1	3.7	29.7	61.0	438
12015	2.9	2.2	2.1	3.4	33.1	56.3	583
18021	3.2	3.2	3.6	5.4	25.4	59.2	441
TOT	83	91	37	83	610	1174	2018
PCT	3.1	2.5	1.4	4.1	30.2	58.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.7	11.5	21.6	26.6	51.8	417
06009	5.7	8.9	17.5	28.7	53.8	314
12015	7.1	11.5	19.4	26.5	54.1	366
18021	6.7	12.1	23.3	28.5	48.2	330
TOT	98	158	293	392	742	1427
PCT	6.9	11.1	20.5	27.5	52.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.1	.1	.1	.1	.0	.0	.0	4	.3
70/74	.0	.2	.0	.2	.0	.3	.1	.2	11	.9
65/69	.0	.0	.0	.2	.7	1.8	2.0	1.5	77	6.0
60/64	.0	.0	.0	.3	2.7	8.9	12.5	9.9	411	32.2
55/59	.0	.0	.0	.3	1.3	4.9	14.7	29.3	844	50.5
50/54	.0	.0	.0	.2	.0	.7	2.9	6.0	124	9.7
45/49	.0	.0	.0	.0	.0	.0	.1	.2	4	.3
TOT	0	3	1	16	60	164	411	600	1275	100.0
PCT	.0	.2	.1	1.3	4.7	14.4	32.2	47.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.2	.0	.0	.0	.0
.1	.2	.2	.0	.1	.1	.0	.2	.0	.1
1.1	.6	.2	.2	.6	.7	1.1	1.0	.0	.4
7.3	2.4	2.2	1.8	4.0	3.1	3.8	8.9	.0	1.7
8.9	2.9	1.9	4.2	8.7	4.0	4.9	10.0	.0	4.9
1.5	.8	.7	.4	1.2	1.2	.7	1.6	.0	1.6
.0	.2	.1	.0	.0	.0	.0	.0	.0	.1
18.9	7.1	5.3	6.6	14.6	9.2	10.6	18.7	.0	8.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	72	67	60	54	52	50	60.4	376
06009	70	65	63	59	54	51	46	58.4	451
12015	68	65	62	58	52	49	47	57.5	604
18021	79	72	66	59	54	52	50	59.8	481
TOT	79	69	65	59	55	50	46	59.0	2112

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	6.8	15.8	33.6	42.9	86	366
06009	.0	1.4	1.8	13.9	38.6	44.3	88	280
12015	.0	1.1	2.9	11.3	29.6	35.1	89	379
18021	.0	3.6	7.5	17.2	28.7	43.0	85	279
TOT	0	21	62	188	423	610	87	1304

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	43	49	53	57	61	65	69	73	77	TOT	W FOG	NO FOG
48	52	56	60	64	68	72	76	80				
17/19	.0	.0	.0	.0	.0	.1	.1	.0		2	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.0		1	.0	.1
11/13	.0	.0	.0	.1	.2	.4	.2	.1	.1	17	.1	.9
9/10	.0	.0	.0	.2	.3	.6	.3	.0	.0	24	.0	1.4
7/8	.0	.0	.1	.6	.7	.7	.3	.0	.0	40	.2	2.0
6	.0	.0	.1	.5	.7	.7	.1	.0	.0	29	.0	1.6
5	.0	.0	.1	1.1	1.6	.4	.1	.0	.0	57	.2	3.1
4	.0	.0	.0	1.4	2.9	.4	.1	.0	.0	83	.2	4.5
3	.0	.0	.4	3.3	2.4	.5	.0	.0	.0	116	.5	6.1
2	.0	.0	.8	4.6	2.7	.3	.0	.0	.0	151	1.0	7.6
1	.0	.0	2.3	7.5	3.6	.7	.0	.0	.0	250	1.4	12.8
0	.0	.1	4.4	7.9	3.2	.7	.0	.0	.0	286	1.4	14.8
-1	.0	.1	3.8	5.7	1.9	.1	.0	.0	.0	205	1.1	10.5
-2	.0	.6	3.2	5.2	1.5	.1	.0	.0	.0	187	1.2	9.3
-3	.0	.5	2.0	2.9	1.3	.1	.0	.0	.0	119	.6	6.1
-4	.1	.7	1.6	2.0	.1	.0	.0	.0	.0	79	.6	3.9
-5	.1	.1	1.1	1.2	.2	.0	.0	.0	.0	46	.5	2.1
-6	.0	.2	.5	.7	.2	.0	.0	.0	.0	28	.0	1.6
-7/-8	.2	.3	.8	.5	.1	.0	.0	.0	.0	34	.2	1.8
-9/-10	.0	.0	.3	.1	.0	.0	.0	.0	.0	8	.0	.5
-11/-13	.0	.1	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	8	45	282	417	93	17	3	1		1765	161	1604
PCT	.3	2.5	21.6	45.4	23.5	3.3	1.0	.2	.1	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	2.9	.2	.0	.0	.0	3.4	.2	1.7	.2	.0	.0	.0	2.1
1-2	.2	2.5	2.9	.0	.0	.0	5.6	.1	1.1	1.5	.0	.0	.0	2.6
3-4	.0	1.9	2.9	.3	.0	.0	5.1	.1	.3	.4	.0	.0	.0	.8
5-6	.0	.3	1.6	.3	.0	.0	2.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.6	8.7	.7	.1	.0	17.6	.3	3.1	2.4	.0	.0	.0	5.8

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.6	1.6	.7	.0	.0	.0	2.4	.6	2.4	.0	.0	.0	.0	3.0
1-2	.0	.4	.7	.0	.0	.0	1.1	.0	.7	.2	.0	.0	.0	.8
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.1	1.2	.0	.0	.0	3.9	.6	3.8	1.9	.6	.0	.0	6.8

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	3.5	.2	.0	.0	.0	4.2	.6	2.5	.1	.0	.0	.0	3.1
1-2	.2	1.1	2.5	.0	.0	.0	3.8	.0	1.1	.9	.0	.0	.0	2.0
3-4	.1	.6	2.2	1.1	.0	.0	4.0	.0	.8	1.3	.2	.0	.0	2.3
5-6	.0	.4	1.6	.4	.1	.0	2.4	.0	.5	1.0	.1	.0	.0	1.6
7	.0	.0	.3	.2	.1	.0	.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.6	6.8	1.8	.2	.0	15.3	.6	4.8	3.5	.3	.0	.0	9.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	2.7	.0	.0	.0	.0	3.4	1.1	2.7	.2	.0	.0	.0	3.9	
1-2	.0	1.3	.5	.0	.0	.0	1.9	.4	2.1	2.2	.0	.0	.0	4.7	
3-4	.1	1.2	.9	.0	.0	.0	2.2	.1	2.2	3.4	.6	.0	.0	6.3	
5-6	.1	.3	.3	.1	.0	.0	.7	.0	.6	1.7	.4	.0	.0	2.8	
7	.0	.0	.0	.0	.1	.0	.1	.0	.0	.6	.1	.0	.0	.7	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.6	2.1	.1	.1	.0	8.8	1.6	7.5	8.2	1.3	.0	.0	18.7	86.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.5	19.9	1.1	.0	.0	.0	39.6	
1-2	.8	10.2	11.4	.0	.0	.0	22.4	
3-4	.4	7.6	12.5	2.4	.0	.0	22.9	
5-6	.1	2.1	6.7	1.5	.1	.0	10.5	
7	.1	.1	2.1	.4	.2	.0	2.9	
8-9	.0	.1	.8	.3	.0	.0	1.2	
10-11	.0	.1	.1	.0	.0	.0	.2	
12	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.9	40.1	34.7	4.8	.4	.0	100.0	973

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	8.0	17.2	12.4	4.4	1.6	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	649	4
6-7	.1	3.2	7.2	8.2	7.5	2.1	1.4	.7	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	427	5
8-9	.0	.8	1.1	3.3	2.7	1.3	1.1	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	158	7
10-11	.0	.4	.4	.6	.5	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	6
12-13	.0	.0	.5	.3	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
>13	.0	.0	.0	.2	.1	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	12
INDET	4.6	1.3	1.2	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	1
TOTAL	86	194	392	358	217	78	52	21	18	1	5	0	0	0	0	0	0	0	0	1422	5
PCT	6.0	13.6	27.6	25.2	15.3	5.5	3.7	1.5	1.3	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1876-1973

OCTOBER

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.4	.6	.0	.0	.0	.0	.9	.0	.5	11.8	.7	6.4	.0	79.9
NE	.0	.0	1.4	.0	.0	.0	.2	1.6	.0	.2	13.4	.0	13.6	.0	69.4
E	2.8	.4	1.9	.0	.0	.0	.6	5.6	1.1	.6	3.7	.0	14.4	.0	75.2
SE	11.4	2.6	6.9	.0	.0	.0	.0	20.9	3.6	.7	9.6	.0	1.9	.6	62.8
S	15.2	3.9	9.2	.0	.0	.0	.0	28.1	3.6	.7	11.8	.1	1.2	.5	56.1
SW	12.6	3.2	3.6	.0	.0	.0	.0	21.2	4.8	.0	8.5	.7	.4	.0	64.4
W	3.7	3.9	4.2	.0	.0	.0	.0	13.8	6.7	.5	6.8	.0	1.5	.0	70.7
NW	4.5	1.9	3.0	.0	.0	.0	.0	9.0	4.0	.5	7.2	.5	3.6	.0	75.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	2.9	.0	.0	.0	.0	4.3	.0	.7	14.5	.0	2.2	.0	78.3
TOT PCT	7.0	2.6	4.4	.0	.0	.0	.1	13.9	2.9	.5	9.8	.3	4.1	.2	68.5
TOT OBS:	1902														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
0000	8.2	2.7	2.9	.0	.0	.0	.0	13.6	2.5	.4	11.7	.2	5.7	.2	65.7	
0600	9.4	3.3	3.3	.0	.0	.0	.0	16.2	4.6	.3	8.6	.8	1.5	.0	68.1	
1200	5.9	2.2	5.5	.0	.0	.0	.2	13.6	2.2	1.0	9.0	.0	3.6	.5	70.1	
1800	5.1	2.2	5.1	.0	.0	.0	.0	12.5	3.1	.0	9.8	.2	4.7	.0	69.7	
TOT PCT TOT OBS: 1945	7.0	2.6	4.3	.0	.0	.0	.1	13.9	3.0	.5	9.8	.3	4.0	.2	68.4	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.8	5.5	6.4	.7	.1	.0		13.5	11.6	13.6	16.8	15.7	12.0	12.0	11.6	11.9	16.0		
NE	.3	2.2	2.8	.3	.0	.0		5.5	11.9	5.4	6.8	4.5	5.8	5.5	5.5	6.0	5.5		
E	.3	2.7	3.4	.6	.1	.0		7.0	13.0	3.3	5.0	7.1	7.2	8.0	10.6	10.2	3.5		
SE	.6	4.6	4.4	1.9	.4	.2		12.2	14.9	13.6	6.5	8.9	16.3	10.7	14.6	13.4	16.6		
S	.5	6.8	8.2	3.5	1.1	.2		20.3	16.0	22.7	17.3	23.7	17.1	19.0	17.9	19.4	21.5		
SW	.4	3.8	4.8	1.9	.3	.0		11.2	14.9	10.6	11.9	11.1	12.7	11.5	9.7	11.5	11.6		
W	.8	4.5	3.9	1.2	.2	.0		10.5	12.8	9.7	12.1	9.0	10.1	11.3	9.4	10.8	12.1		
NW	.5	3.2	5.8	1.1	.4	.0		12.9	13.2	14.4	14.9	12.7	15.9	13.6	12.0	10.0	11.4		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.9							6.9	.0	6.7	8.7	7.2	2.9	8.4	8.7	6.7	1.7		
TOT OBS	238	759	855	241	56	9	2158		12.9	389	196	319	104	403	218	356	173		
TOT PCT	11.0	35.2	39.6	11.2	2.6	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	3.3	7.5	2.6	.1	.0		13.5	11.6	14.7	14.8	11.8	13.3	
NE	1.2	3.1	1.2	.0	.0		5.5	11.9	5.9	4.8	5.5	5.8	
E	1.4	3.6	1.6	.3	.0		7.0	13.0	3.9	7.2	8.9	8.0	
SE	2.4	5.6	2.6	1.2	.4		12.2	14.9	11.2	10.8	12.1	14.5	
S	2.8	9.9	5.0	2.2	.4		20.3	16.0	20.9	22.1	18.6	20.1	
SW	1.6	5.7	2.9	.8	.2		11.2	14.9	11.0	11.3	10.9	11.5	
W	2.5	5.0	2.3	.6	.0		10.5	12.8	10.5	9.3	10.6	11.2	
NW	2.9	6.3	3.0	.7	.0		12.9	13.2	14.6	13.5	13.1	10.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.9						6.9	.0	7.4	8.1	8.5	5.1	
TOT OBS	340	1010	458	128	22	2158		12.9	585	423	621	529	
TOT PCT	25.0	46.8	21.2	5.9	1.0		100.0		100.0	100.0	100.0	100.0	

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL DBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	7.4	4.4	36.4	38.8	9.6	3.1	.3	12.5	100.0	585
0600Z	6.1	3.1	33.6	42.6	12.1	2.1	.5	13.4	100.0	423
1215Z	8.3	3.7	35.1	37.7	11.9	2.6	.5	12.9	100.0	621
1821Z	5.1	5.1	35.2	40.5	11.3	2.5	.4	12.9	100.0	529
TOT	14.9	8.9	75.9	85.5	24.1	9.6	9	12.9		2158
PCT	6.9	4.1	35.2	39.6	11.2	2.6	.4	100.0		

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	1.5	2.5	2.6		3.2
NE	3.8	.4	1.0	1.1		3.0
E	4.4	1.0	1.6	1.1		3.0
SE	1.9	.7	2.1	5.6		6.0
S	1.1	.8	3.6	13.5		7.0
SW	1.0	.0	3.2	5.5		6.5
W	1.8	2.1	3.6	2.7		5.2
NW	3.8	2.5	3.8	2.7		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.4	2.3	2.6		4.7
TOT OBS	363	146	312	491	1312	5.0
TOT PCT	27.7	11.1	23.8	37.4	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

000 149	150 299	300 599	600 899	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY	NH HGT	CS HGT	TOTAL QBS
.7	.0	.2	.8	1.0	.6	.4	.1	.1	.1	9.9		
.5	.0	.0	.2	.5	.2	.2	.0	.0	.1	4.8		
.1	.0	.0	.4	.8	.2	.1	.0	.1	.1	6.4		
.7	.1	.6	1.5	2.1	1.2	.2	.2	.1	.2	3.5		
2.4	.4	1.2	2.9	4.3	3.0	.6	.1	.1	.2	3.7		
1.0	.2	.8	1.2	1.8	2.1	.3	.1	.2	.0	2.9		
.6	.0	.3	.9	2.0	1.6	.2	.1	.0	.1	4.6		
.5	.2	.4	.9	1.6	1.1	.4	.0	.2	.2	7.5		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1.1	.1	.2	.8	.8	.5	.5	.1	.1	.0	4.6		
102	12	47	125	194	139	37	9	10	10	627		1312
7.8	.9	3.6	9.5	14.8	10.6	2.8	.7	.8	.8	47.8		100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSOBY (NM)

CEILING (FEET)	VSSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >9500	.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >9000	1.2	2.1	2.1	2.2	2.2	2.2	2.2	2.2
= OR >8500	3.6	4.9	4.9	5.0	5.0	5.0	5.0	5.0
= OR >2000	10.2	14.4	15.5	15.9	16.0	16.0	16.0	16.0
= OR >1000	19.0	27.9	29.9	30.7	30.9	30.9	30.9	30.9
= OR >600	23.2	26.0	29.0	40.0	40.2	40.3	40.3	40.3
= OR >300	24.0	28.0	42.2	43.3	43.7	43.8	43.8	43.8
= OR >150	24.2	38.6	43.0	44.2	44.6	44.7	44.7	44.7
= OR >0	24.5	39.4	44.1	44.6	49.4	50.7	52.3	52.6
TOTAL	325	523	586	619	657	674	695	699

PCT FREQ NM C5/D1 47.4

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL DBS
19.3	6.2	8.6	6.4	6.3	4.3	7.1	8.8	25.7	7.4	1374

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1876-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.4	.2	.1	.5	.8	.3	.3	.4	.0	.5	3.3	
	TOT %	.4	.2	.1	.5	.9	.3	.3	.4	.0	.5	3.5	
1/2<1	PCP	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.5	
	NO PCP	.5	.5	.0	.2	.6	.3	.3	.2	.0	.3	2.7	
	TOT %	.5	.5	.0	.3	.8	.4	.3	.2	.0	.3	3.3	
1<2	PCP	.0	.0	.0	.3	1.0	.3	.2	.1	.0	.0	1.9	
	NO PCP	.3	.0	.1	.1	.1	.2	.1	.2	.0	.0	1.1	
	TOT %	.3	.0	.1	.4	1.1	.5	.3	.3	.0	.0	3.0	
2<5	PCP	.	.	.1	.4	1.7	.7	.3	.1	.0	.1	3.4	
	NO PCP	.0	.0	.1	.5	.6	.6	.2	.1	.0	.1	2.1	
	TOT %	.	.	.1	.9	2.3	1.2	.4	.2	.0	.2	5.4	
5<10	PCP	.0	.1	.3	1.4	2.3	1.0	.7	.6	.0	.1	6.5	
	NO PCP	4.6	1.3	1.2	3.5	5.5	2.9	2.1	3.3	.0	1.5	25.9	
	TOT %	4.6	1.4	1.5	4.9	7.8	3.8	2.8	3.9	.0	1.6	32.5	
10+	PCP	.1	.0	.0	.2	.2	.2	.2	.4	.0	.1	1.4	
	NO PCP	8.2	3.7	5.3	4.5	6.7	4.5	5.9	7.8	.0	4.5	51.0	
	TOT %	8.3	3.7	5.3	4.6	6.9	4.6	6.1	8.2	.0	4.6	52.4	
TOT OBS													1898
TOT PCT		14.0	5.8	7.1	11.6	20.0	10.9	10.3	13.2	.0	7.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.0	.0	.1	.0	.0	.5	.7	
	4-10	.3	.1	.0	.1	.4	.2	.3	.3	.0		1.7	
	11-21	.0	.1	.1	.4	.5	.	.0	.1	.0		1.1	
	22+	.0	.0	.0	.	.1	.1	.0	.0	.0		.2	
	TOT %	.3	.2	.1	.5	.9	.3	.3	.4	.0	.5	3.6	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	.5	
	4-10	.1	.2	.0	.1	.2	.1	.2	.1	.0		.9	
	11-21	.4	.2	.0	.1	.6	.	.1	.1	.0		1.6	
	22+	.0	.0	.0	.1	.	.2	.0	.0	.0		.3	
	TOT %	.5	.4	.0	.2	.8	.4	.3	.2	.0	.3	3.2	
1<2	0-3	.1	.0	.	.	.0	.0	.1	.0	.0	.0	.2	
	4-10	.2	.0	.	.1	.2	.	.2	.2	.0		1.0	
	11-21	.1	.0	.0	.1	.3	.5	.1	.1	.0		1.2	
	22+	.1	.0	.0	.2	.6	.1	.	.	.0		1.0	
	TOT %	.4	.0	.1	.4	1.2	.6	.5	.3	.0	.0	3.4	
2<5	0-3	.0	.0	.0	.1	.	.	.	.	.0	.3	.4	
	4-10	.	.0	.1	.2	.5	.3	.1	.1	.0		1.3	
	11-21	.	.	.1	.4	1.1	.7	.3	.1	.0		2.7	
	22+	.0	.0	.	.4	.8	.2	.0	.0	.0		1.5	
	TOT %	.1	.	.1	1.0	2.5	1.2	.4	.2	.0	.3	5.8	
5<10	0-3	.2	.1	.1	.2	.3	.2	.2	.2	.0	1.5	3.0	
	4-10	1.9	.5	.8	1.6	2.3	1.1	1.2	1.2	.0		10.7	
	11-21	2.1	.7	.5	1.5	2.8	1.6	1.2	1.8	.0		12.0	
	22+	.4	.1	.2	1.6	2.3	.9	.4	.6	.0		6.4	
	TOT %	4.6	1.3	1.6	4.9	7.7	3.8	3.0	3.9	.0	1.5	32.2	
10+	0-3	.5	.1	.2	.3	.1	.1	.4	.1	.0	4.5	6.3	
	4-10	3.1	1.3	1.7	2.6	3.1	2.1	2.5	3.1	.0		19.5	
	11-21	4.0	2.0	2.8	1.7	2.9	1.9	2.3	3.9	.0		21.5	
	22+	.5	.3	.4	.1	1.0	.5	.8	.9	.0		4.6	
	TOT %	8.1	3.6	5.1	4.8	7.1	4.6	6.0	8.1	.0	4.5	51.9	
TOT OBS													1993
TOT PCT		13.8	5.6	6.9	11.8	20.2	10.9	10.5	13.2	.0	7.1	100.0	

OCTOBER

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1876-1973AREA 0040 ASTORIA
46.6N 124.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.4	.5	2.4	12.9	13.9	12.1	2.6	.8	.8	.3	53.7	46.3	360
06009	8.3	.0	3.8	5.3	11.7	10.9	2.3	1.1	.0	1.5	44.9	55.1	265
12015	9.0	1.4	3.0	7.4	15.6	9.6	3.6	.5	1.1	.5	51.8	48.2	365
18021	6.6	1.5	5.1	10.5	17.4	10.8	2.7	.3	.9	.9	56.8	43.2	333
TOT	105	12	47	125	199	146	38	9	10	10	701	642	1343
PCT	7.8	.9	3.5	9.3	14.8	10.9	2.8	.7	.7	.7	52.2	47.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.6	3.7	3.6	4.1	34.3	50.7	362
06009	3.2	3.9	3.6	7.8	29.7	51.8	411
12015	4.5	2.2	3.7	5.2	34.2	50.3	599
18021	2.8	3.4	2.4	6.7	30.8	53.9	464
TOT	73	66	68	117	663	1049	2036
PCT	3.6	3.2	3.3	5.7	32.6	51.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.5	11.0	26.0	28.7	45.3	373
06009	8.4	13.0	24.8	21.8	53.4	262
12015	9.1	13.5	23.9	28.3	47.8	364
18021	6.7	13.9	26.1	31.5	42.4	330
TOT	105	170	335	371	623	1329
PCT	7.9	12.8	25.2	27.9	46.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.1	.4	.2	.2	.2	14	1.1
60/64	.0	.0	.2	.2	.7	2.3	2.8	2.2	104	8.4
55/59	.0	.0	.2	.7	2.6	6.7	12.5	19.0	320	41.8
50/54	.0	.0	.0	.7	2.8	5.9	12.4	17.3	488	39.2
45/49	.0	.0	.0	.1	.2	1.0	3.1	3.6	99	8.0
40/44	.0	.0	.0	.1	.2	.2	.2	1.0	20	1.6
TOTAL	0	0	4	23	86	205	388	539	1245	100.0
PCT	.0	.0	.3	1.8	6.9	16.5	31.2	43.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.8	.1	.1	.1	.1	.1	.1	.0	.2
.8	.9	.5	1.0	1.7	1.3	.6	1.0	.0	.5
6.5	2.2	2.2	3.7	9.1	4.6	4.4	5.8	.0	3.3
6.6	2.0	4.2	4.2	6.2	2.7	4.0	6.4	.0	3.1
1.1	.8	1.4	1.0	.7	.3	.6	1.5	.0	.4
.3	.3	.4	.0	.1	.0	.0	.3	.0	.2
15.6	6.3	8.8	10.0	17.9	9.0	9.7	15.0	.0	7.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	66	61	55	49	45	36	55.4	597
06009	68	64	60	55	49	44	38	54.7	431
12015	69	62	59	54	48	42	38	55.8	627
18021	67	65	62	55	48	43	38	55.3	532
TOT	69	65	61	55	48	44	36	54.8	2187

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	8.7	15.3	33.2	41.0	86	346		
06009	.0	2.1	7.2	18.3	25.5	46.8	36	235		
12015	.0	1.6	4.4	13.7	31.3	49.0	88	386		
18021	.0	3.4	8.5	20.1	33.0	35.0	84	294		
TOT	0	27	89	208	393	544	86	1261		

PERIOD: (PRIMARY) 1933-1973
(OVER-ALL) 1876-1973

OCTOBER

TABLE 17

AREA 0040 ASTORIA
46.8N 124.9W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	W FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.1	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.0	.2	.1	.1	10	.1	.5
7/8	.0	.0	.0	.1	.0	.0	.6	.3	.4	.0	24	.3	1.0
6	.0	.0	.0	.0	.0	.1	.3	.1	.2	.0	13	.1	.6
5	.0	.0	.0	.0	.1	.3	.7	.3	.1	.0	23	.2	1.2
4	.0	.0	.0	.0	.1	.4	1.3	.6	.0	.0	46	.3	2.3
3	.0	.0	.0	.0	.2	2.2	1.9	.5	.0	.0	86	.4	4.3
2	.0	.0	.0	.0	.4	2.6	3.4	.7	.1	.0	131	.6	6.7
1	.0	.0	.0	.0	1.3	5.3	4.2	.4	.0	.0	207	.9	10.5
0	.0	.0	.0	.1	2.3	8.2	4.3	.5	.0	.0	278	1.8	13.5
-1	.0	.0	.0	.0	4.3	8.8	3.9	.2	.1	.0	313	1.5	15.7
-2	.0	.0	.0	.3	3.6	5.3	1.7	.1	.0	.0	203	.9	10.3
-3	.0	.0	.0	.6	2.8	3.3	1.2	.1	.0	.0	146	1.0	7.1
-4	.0	.0	.0	.9	2.5	1.8	.4	.0	.0	.0	101	.4	5.1
-5	.0	.0	.1	.6	2.3	1.3	.4	.1	.0	.0	87	.6	4.2
-6	.0	.0	.3	.6	1.4	1.0	.2	.0	.0	.0	51	.3	3.0
-7/-8	.0	.0	.7	.7	.5	.6	.2	.0	.0	.0	47	.3	2.3
-9/-10	.0	.1	.1	.1	.3	.1	.1	.0	.0	.0	13	.0	.7
-11/-13	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	10	.0	.6
-14/-16	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	5	.1	.2
TOTAL	1	9	24	72	400	760	453	75	19	3	1812	178	1634
PCT	.1	.3	1.3	4.0	22.1	41.9	25.0	4.1	1.0	.2	100.0	9.8	90.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	2.7	.2	.0	.0	.0	3.1	.1	1.4	.3	.0	.0	.0	1.9
1-2	.1	1.3	1.8	.0	.0	.0	3.2	.0	.2	1.2	.0	.0	.0	1.4
3-4	.0	.3	1.1	.4	.0	.0	1.7	.0	.4	.5	.2	.0	.0	1.0
5-6	.0	.2	.9	.0	.0	.0	1.1	.0	.0	.3	.0	.0	.0	.3
7	.0	.2	.6	.0	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	4.4	.4	.2	.0	10.2	.1	1.9	2.4	.2	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.3	.3	.0	.0	.0	2.0	.0	1.9	.1	.0	.0	.0	1.9
1-2	.0	1.2	1.4	.0	.0	.0	2.6	.2	1.7	.6	.0	.0	.0	2.3
3-4	.0	.3	1.6	.2	.0	.0	2.1	.0	.8	1.7	.5	.0	.0	3.1
5-6	.0	.0	.1	.1	.0	.0	.2	.1	.0	.8	.2	.0	.0	1.1
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.7	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	3.6	.3	.0	.0	7.2	.3	4.4	3.8	2.0	.2	.0	10.7

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0040 ASTORIA
46.0N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	3.0	.2	.0	.0	.0		3.3	.2	1.6	.0	.0	.0	.0		1.9
1-2	.0	2.0	2.1	.0	.0	.0		4.1	.0	.7	1.3	.0	.0	.0		2.0
3-4	.1	.9	3.4	.4	.0	.0		4.9	.0	.8	1.3	.3	.0	.0		2.6
5-6	.0	.2	2.3	1.0	.0	.0		3.6	.0	.1	1.0	.2	.0	.0		1.3
7	.0	.3	1.0	1.2	.0	.0		2.5	.0	.0	1.1	.2	.0	.0		.8
8-9	.0	.0	.5	.6	.2	.0		1.3	.0	.0	.3	.4	.0	.0		.4
10-11	.0	.0	.0	1.0	.0	.0		1.0	.0	.0	.1	.3	.0	.0		.2
12	.0	.0	.0	.3	.2	.0		.5	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.6	.0	.0	.1	.1	.0	.0		.0
17-19	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	6.4	9.6	4.5	1.3	.0		21.9	.3	3.4	5.2	1.7	.0	.0		10.5

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.0	.0	.0	.0	.0		1.3	.0	2.2	.1	.0	.0	.0		2.4
1-2	.0	1.1	.7	.0	.0	.0		1.8	.0	1.0	1.9	.0	.0	.0		2.9
3-4	.0	1.1	.8	.1	.0	.0		2.0	.0	.4	2.2	.3	.0	.0		2.9
5-6	.0	.5	.8	.2	.0	.0		1.4	.0	.5	1.4	.2	.0	.0		2.1
7	.0	.0	.5	.4	.0	.0		.9	.0	.1	.9	.1	.0	.0		1.1
8-9	.0	.1	.1	.3	.2	.0		.6	.0	.0	.4	.1	.1	.0		.6
10-11	.0	.0	.3	.2	.0	.0		.5	.0	.0	.0	.1	.1	.0		.2
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.2	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.1	.0		.3
17-19	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.8	3.2	1.2	.2	.0		8.7	.1	4.2	7.0	1.0	.5	.0		12.8 86.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.6	15.4	1.1	.0	.0	.0	31.1	
1-2	.3	9.4	10.8	.0	.0	.0	20.6	
3-4	.1	5.0	12.6	2.6	.0	.0	20.3	
5-6	.1	1.5	7.6	1.8	.0	.0	11.1	
7	.0	.5	4.6	2.8	.1	.0	8.0	
8-9	.0	.1	1.5	1.7	.4	.0	3.8	
10-11	.0	.0	.4	1.7	.2	.0	2.4	
12	.1	.0	.2	.3	.4	.0	1.0	
13-16	.0	.0	.1	.4	.9	.0	1.4	
17-19	.0	.0	.1	.0	.2	.0	.3	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	31.9	39.1	11.5	2.3	.0	100.0	977

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	6.9	15.2	11.2	3.5	1.8	.6	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	561
6-7	.0	2.2	6.8	6.6	3.8	4.1	2.4	.9	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	423
8-9	.0	.6	2.0	2.7	3.1	3.2	2.2	1.4	1.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	240
10-11	.0	.1	.1	.6	.5	.6	.6	.6	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
12-13	.0	.0	.4	.1	.1	.2	.3	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
>13	.0	.0	.0	.4	.5	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
INDBT	1.6	.3	.6	.6	.5	.4	.4	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	64
TOTAL	30	140	350	309	196	146	90	49	57	11	11	2	0	0	0	0	0	0	0	0	1391
PCT	2.2	10.1	25.2	22.2	14.1	10.5	6.5	3.5	4.1	.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1938-1972
(OVER-ALL) 1857-1972AREA 0040 ASTORIA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	4.4	2.4	34.1	37.6	16.3	4.7	.5	14.8	100.0	619
06009	4.2	2.0	26.9	44.0	17.3	5.0	.7	15.8	100.0	457
12015	5.6	2.2	29.5	40.8	17.8	3.4	.7	15.1	100.0	590
18021	4.4	3.3	27.1	41.1	16.3	6.3	1.4	15.9	100.0	572
TOT	104	56	663	910	378	109	18	15.4		2238
PCT	4.6	2.5	29.6	40.7	16.9	4.9	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.8	1.7	1.8		4.7
NE	2.8	.8	1.7	1.3		3.8
E	3.7	1.1	3.3	4.3		5.0
SE	1.3	.5	2.9	9.5		6.8
S	1.1	1.5	4.4	14.6		7.0
SW	1.3	1.2	3.2	5.1		6.1
W	1.6	1.8	3.9	3.9		5.7
NW	2.3	1.5	4.1	3.2		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.5	1.6	2.4		5.6
TOT OBS	227	128	331	603	1309	5.6
TOT PCT	17.3	9.8	26.8	46.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.3	.0	.1	.5	1.0	.8	.1	.0	.0	.2	3.3	
.1	.0	.3	.5	.4	.6	.2	.0	.1	.1	4.4	
.8	.0	.5	2.1	1.2	1.0	.2	.0	.2	.4	6.1	
1.2	.2	.8	2.9	2.8	2.0	.1	.1	.3	.3	3.7	
3.2	.5	1.2	3.5	4.4	2.7	.5	.1	.3	.1	5.0	
1.3	.2	.6	1.3	1.9	1.5	.3	.0	.0	.0	3.8	
.6	.1	.3	1.7	1.6	1.6	.3	.1	.0	.1	4.8	
.3	.1	.2	1.1	2.3	1.9	.1	*	.1	.0	4.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.1	.4	.6	1.1	.2	.0	.0	.1	.2	2.1	
112	15	58	185	223	162	21	4	14	16	499	1309
8.6	1.1	4.4	14.1	17.0	12.4	1.6	.3	1.1	1.2	38.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	= OR			VSBY (NM)			= OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
= OR >6500	1.9	2.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >4000	2.1	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	3.1	3.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	10.4	15.2	16.4	16.4	16.4	16.4	16.4	16.4	16.4
= OR >1000	20.3	30.8	32.9	33.3	33.3	33.4	33.4	33.4	33.4
= OR >600	26.3	42.7	46.5	47.8	47.8	47.9	47.9	47.9	47.9
= OR >300	27.9	45.9	50.3	51.8	52.1	52.2	52.2	52.2	52.2
= OR >150	28.0	46.6	51.3	52.8	53.2	53.3	53.3	53.3	53.3
= OR >0	28.7	49.7	55.7	58.3	60.1	61.2	61.7	61.8	61.8
TOTAL	378	654	733	768	791	806	813	814	

TOTAL NUMBER OF OBS: 1317

PCT FREQ NM <5/8: 38.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.4	4.8	8.5	7.8	6.1	5.7	8.5	6.1	32.7	7.4
										1384

PERIOD: (PRIMARY) 1938-1972
(OVER-ALL) 1857-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THOR	FOG	FOG WD	SMOKE	NO
				PCPN		FRZN		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	SIG
						PCPN					PCPN	PAST HR	BLWG	WEA
N	4.0	1.2	4.4	.0	.0	.0	.0	9.6	.0	.0	10.0	.0	.8	79.7
NE	2.1	.8	6.3	.0	.0	.0	.0	9.2	.2	.0	2.3	.4	4.0	83.8
E	7.5	.4	6.4	.0	.2	.0	.0	11.8	1.4	.0	3.8	.2	4.2	78.6
SE	19.3	3.9	8.1	.0	.2	.0	.0	30.1	3.0	.0	5.2	.7	.8	59.4
S	22.3	4.8	9.5	.0	.0	.0	.0	34.6	4.5	.5	7.2	.2	1.1	50.7
SW	12.5	4.9	11.2	.0	.0	.0	.4	28.4	5.0	.4	6.9	.0	.1	59.4
W	9.0	5.8	7.8	.0	.0	.0	.3	22.1	5.1	.4	3.1	.0	1.4	68.4
NW	3.1	2.4	4.9	.0	.0	.0	.1	10.1	2.3	.0	6.6	.0	.6	79.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	5.2	.0	.0	.0	.0	6.3	.0	.0	11.5	.0	2.1	80.2
TOT PCT	11.5	3.2	7.3	.0	*	.0	.1	21.3	3.0	.2	5.9	.2	1.5	67.5
TOT OBS:	2018													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THOR	FOG	FOG WD	SMOKE	NO
				PCPN		FRZN		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	SIG
						PCPN					PCPN	PAST HR	BLWG	WEA
00003	11.4	3.7	5.6	.0	.0	.0	.0	20.6	2.6	.0	6.5	.2	2.5	.7
06009	11.6	3.9	7.7	.0	.2	.0	.0	22.0	5.2	.5	3.6	.0	.7	.2
12015	12.5	2.1	10.0	.0	.0	.0	.2	23.2	1.6	.4	5.4	.0	1.4	.7
18021	9.9	3.2	3.9	.0	.0	.0	.2	18.7	3.2	.0	8.2	.6	1.5	.2
TOT PCT	11.4	3.2	7.4	.0	*	.0	.1	21.2	3.0	.2	6.0	.2	1.6	.5
TOT OBS:	2054													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.1	2.4	.4	.0	.0		6.3	11.1		7.3	3.8	5.9	9.7	7.7	7.2	3.9	5.6
NE	.3	2.7	2.8	.4	.1	.0		6.3	12.5		6.7	5.9	6.9	5.1	6.8	6.5	6.6	3.3
E	.4	4.5	6.6	1.0	.0	.0		12.6	12.8		11.9	17.7	13.3	7.4	12.8	15.0	13.0	7.5
SE	.5	3.9	6.2	3.4	.9	.2		15.2	17.5		14.0	13.4	14.9	13.0	14.6	15.7	14.0	23.0
S	.2	4.3	7.2	9.7	2.1	.4		20.0	20.2		23.0	20.2	18.3	17.1	18.4	16.0	22.5	20.7
SW	.2	3.4	5.3	2.1	.6	.1		11.7	16.4		12.2	9.8	13.5	9.7	11.6	12.4	8.1	16.0
W	.2	3.7	4.5	2.1	.6	.1		11.3	16.3		9.9	10.3	11.0	15.3	12.0	9.1	13.5	10.6
NW	.3	4.0	5.7	1.7	.5	.0		12.1	19.1		11.3	13.3	11.9	19.0	10.0	13.4	13.0	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0		3.8	5.6	4.3	3.7	6.1	4.7	5.3	2.8
TOT OBS	160	663	910	378	109	18	2238		15.4		423	196	349	108	376	214	358	214
TOT PCT	7.1	29.6	40.7	16.9	4.9	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	18
N	1.7	3.6	.7	.1	.0			6.3	11.1		6.2	6.8	7.5	4.5
NE	1.2	3.6	1.2	.3	.0			6.3	12.5		6.4	6.5	6.7	5.4
E	2.1	7.2	3.0	.2	.0			12.6	12.8		13.7	11.9	13.6	10.9
SE	2.3	6.0	4.3	2.0	.6			15.2	17.5		13.8	14.4	15.0	17.4
S	1.7	6.6	6.8	4.1	.7			20.0	20.2		22.1	18.0	17.5	21.8
SW	1.6	5.2	3.5	1.3	.2			11.7	16.4		11.4	12.6	11.9	11.1
W	1.4	5.3	3.0	1.3	.2			11.3	16.3		10.0	12.0	11.0	12.5
NW	1.9	5.8	3.3	.9	.2			12.1	19.1		11.9	13.6	11.3	12.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	4.6							4.6	.0		4.4	4.2	5.6	4.4
TOT OBS	413	977	577	229	42	2238			15.4		619	457	590	372
TOT PCT	18.5	43.7	25.8	10.2	1.9			100.0			100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1938-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.1	.2	.1	.1	.0	.0	.4	
	NO PCP	.1	.1	.2	.4	.4	.1	.2	.3	.0	.2	1.9	
	TOT %	.1	.1	.2	.4	.5	.3	.2	.3	.0	.2	2.3	
1/2<1	PCP	.0	.0	.0	.3	.2	.1	.1	.1	.0	.0	.6	
	NO PCP	.1	.1	.1	.1	.4	.2	.2	.1	.0	.1	1.5	
	TOT %	.1	.1	.1	.4	.7	.3	.2	.2	.0	.1	2.1	
1<2	PCP	.1	.1	.1	.4	.7	.3	.3	.1	.0	.1	2.1	
	NO PCP	.1	.1	.1	.1	.2	.1	.1	.1	.0	.1	.6	
	TOT %	.2	.2	.2	.5	1.0	.4	.4	.2	.0	.2	2.7	
2<5	PCP	.1	.1	.4	.9	1.6	.3	.1	.2	.0	.0	3.6	
	NO PCP	.2	.1	.2	.2	.7	.3	.1	.1	.0	.1	1.9	
	TOT %	.2	.2	.6	1.1	2.3	.7	.2	.3	.0	.1	5.5	
5<10	PCP	.1	.3	.9	2.3	3.6	1.7	1.5	.8	.0	.1	11.6	
	NO PCP	1.3	1.6	2.7	3.3	4.5	2.3	3.0	3.1	.0	.6	22.6	
	TOT %	1.4	1.9	3.6	5.6	8.1	4.0	4.5	3.9	.0	.7	34.2	
10+	PCP	.1	.2	.2	.6	.6	.5	.6	.1	.0	.1	3.0	
	NO PCP	3.7	4.2	8.3	6.1	6.9	4.9	9.7	7.0	.0	3.4	50.1	
	TOT %	3.8	4.4	8.5	6.7	7.5	5.4	6.3	7.1	.0	3.5	53.1	
TOT OBS													2015
TOT PCT		6.3	6.5	13.1	14.5	20.0	11.1	11.7	12.1	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.0	.1	.1	.1	.0	.2	.5	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.7	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.4	
	22+	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.6	
	TOT %	.1	.1	.2	.4	.5	.3	.2	.3	.0	.2	2.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.2	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.5	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.5	
	22+	.0	.0	.0	.4	.4	.1	.0	.0	.0	.1	.9	
	TOT %	.1	.1	.1	.4	.6	.3	.2	.2	.0	.1	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.6	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.6	
	22+	.1	.1	.1	.3	.3	.2	.1	.0	.0	.1	1.1	
	TOT %	.2	.2	.2	.4	.4	.3	.2	.1	.0	.1	2.7	
2<5	0-3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.1	.2	.3	.4	.1	.1	.0	.1	1.3	
	11-21	.1	.1	.1	.3	.4	.4	.1	.2	.0	.1	2.2	
	22+	.0	.1	.1	.4	1.1	.3	.1	.1	.0	.1	2.1	
	TOT %	.2	.3	.3	1.1	2.4	.8	.3	.3	.0	.3	5.8	
5<10	0-3	.1	.1	.2	.2	.1	.1	.1	.2	.0	.8	1.7	
	4-10	.1	.1	.1	.1	1.1	1.1	.9	.8	.0	.1	8.2	
	11-21	.1	.1	.1	.1	2.2	2.6	1.8	2.0	.0	.1	13.4	
	22+	.1	.1	.1	.1	2.1	4.0	1.0	1.4	.0	.1	10.3	
	TOT %	1.4	1.4	1.4	1.4	7.9	4.0	4.4	3.8	.0	.8	33.6	
10+	0-3	.2	.1	.3	.2	.1	.1	.0	.1	.0	3.4	4.4	
	4-10	2.1	1.8	3.0	2.3	2.8	1.8	2.5	2.6	.0	.1	18.6	
	11-21	1.6	2.2	4.9	3.5	3.1	2.9	2.5	3.3	.0	.1	23.9	
	22+	.1	.3	.4	1.1	1.7	.8	1.2	1.2	.0	.1	6.7	
	TOT %	3.9	4.4	8.6	7.0	7.5	5.6	6.2	7.0	.0	3.4	53.7	
TOT OBS													2093
TOT PCT		6.4	6.5	13.1	14.9	19.8	11.4	11.5	11.8	.0	4.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	7.8	1.3	5.7	17.2	15.6	10.7	1.6	.3	1.0	.8	62.0	38.0	384
06009	7.2	1.4	3.1	10.6	19.5	10.9	1.4	.3	1.7	2.0	58.0	42.0	293
12015	11.2	.9	3.0	13.6	16.6	13.0	2.1	.3	.3	.6	61.6	38.4	331
18021	7.3	.9	5.2	14.8	16.1	13.9	1.2	.3	1.2	1.5	62.4	37.6	330
TOT	112	15	58	191	229	162	21	4	14	16	818	520	1338
PCT	8.4	1.1	4.3	14.3	16.8	12.1	1.6	.3	1.0	1.2	61.1	38.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.8	2.0	3.0	6.4	34.2	52.6	97
06009	2.2	1.1	2.2	6.4	30.3	57.7	452
12015	2.2	2.0	2.9	5.9	36.1	50.9	593
18021	3.1	3.1	2.7	5.5	33.4	52.3	488
TOT	49	44	58	129	718	1132	2130
PCT	2.3	2.1	2.7	6.1	33.7	53.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.0	14.9	35.4	27.9	36.7	376
06009	7.2	11.3	26.0	32.2	41.8	292
12015	11.5	15.3	33.2	30.4	36.3	322
18021	7.3	14.4	31.2	33.0	35.8	327
TOT	112	186	418	405	494	1317
PCT	8.5	14.1	31.7	30.8	37.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
43/49	.0	.0	.0	.0	.1	.1	.0	.0	3	.2
60/64	.0	.0	.1	.1	.1	.1	.4	.4	11	.8
59/59	.0	.0	.4	1.1	2.4	5.5	4.9	198	14.2	
50/54	.0	.0	.3	.8	4.4	7.0	16.7	24.2	742	53.3
43/49	.0	.0	.0	.3	2.4	4.2	8.4	11.1	369	26.5
40/44	.0	.0	.1	.1	.2	.4	.6	2.7	59	4.2
33/39	.0	.0	.0	.0	.0	.1	.1	.6	11	.8
TOT	.0	.0	.5	2.4	11.6	19.9	43.7	61.2	1393	100.0
PCT	.0	.0	.4	1.7	8.3	14.3	31.4	43.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
43/49	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0
60/64	.0	.2	.4	.1	.0	.0	.1	.1	.0	.0
59/59	.4	.6	2.3	2.0	4.5	2.1	1.3	.4	.0	.3
50/54	3.2	2.6	5.4	8.2	13.8	7.2	5.4	.0	.0	2.0
43/49	2.4	2.2	4.9	3.8	3.1	1.8	2.9	.0	.0	1.9
40/44	.3	.3	1.4	.5	.2	.1	.4	.3	.0	.4
33/39	.0	.3	.3	.0	.0	.1	.1	.0	.0	.0
TOT	6.3	6.3	14.7	14.7	21.6	11.3	10.4	10.0	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	63	59	57	52	46	40	36	51.3	624
06009	66	58	56	51	43	40	32	50.9	440
12015	63	57	55	50	44	40	30	50.1	603
18021	69	59	57	52	49	41	38	51.5	575
TOT	69	59	56	51	45	41	30	50.9	2264

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.2	8.2	15.7	32.5	41.4	86	415		
06009	.0	1.4	7.5	17.8	30.1	43.2	96	292		
12015	.0	1.5	4.2	10.3	29.8	51.9	88	389		
18021	.0	3.2	11.6	13.7	33.2	38.0	85	313		
TOT	0	29	117	201	443	619	86	1409		

PERIOD: (PRIMARY) 1938-1972
(OVER-ALL) 1857-1972

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AREA 0040 ASTORIA
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	5	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	4	.0	.2
7/8	.0	.0	.0	.0	.0	.2	.3	.3	.2	.0	18	.1	.9
6	.0	.0	.0	.0	.0	.1	.2	.5	.0	.0	16	.1	.7
5	.0	.0	.0	.0	.0	.1	.5	.6	.0	.0	24	.0	1.2
4	.0	.0	.0	.0	.1	.2	1.3	.5	.0	.0	40	.0	2.1
3	.0	.0	.0	.0	.0	.9	2.8	.4	.1	.0	83	.2	4.1
2	.0	.0	.0	.0	.2	2.5	3.8	.7	.0	.0	139	.4	6.7
1	.0	.0	.0	.0	.1	5.2	5.7	.4	.0	.0	222	.9	10.5
0	.0	.0	.0	.0	.4	9.1	5.1	.2	.0	.0	287	1.0	13.7
-1	.0	.0	.0	.0	1.1	8.1	2.8	.2	.0	.0	238	.9	11.3
-2	.0	.0	.0	.0	2.1	8.6	1.9	.2	.0	.0	247	.7	12.0
-3	.0	.0	.0	.2	3.0	5.8	.9	.1	.0	.0	195	.4	9.6
-4	.0	.0	.0	.2	3.5	2.3	.7	.1	.0	.0	132	.4	6.4
-5	.0	.0	.0	.1	2.8	2.1	.3	.0	.0	.0	103	.3	5.0
-6	.0	.0	.0	.7	2.0	.8	.1	.0	.0	.0	71	.2	3.5
-7/-8	.0	.0	.1	1.1	1.3	.7	.1	.0	.0	.0	63	.3	3.0
-9/-10	.0	.0	.1	1.1	.5	.2	.1	.0	.0	.0	37	.1	1.8
-11/-13	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	11	.0	.6
-14/-16	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	6	.1	.3
-17/-19	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	4	9	70	91	518	82	3			1944	116	1828
PCT	.1	.2	.5	3.6	17.3	47.0	26.6	4.2	.4	.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.3	.0	.0	.0	.0	1.8	.1	1.3	.0	.0	.0	.0	1.4
1-2	.0	.8	1.0	.0	.0	.0	1.8	.0	.4	2.0	.0	.0	.0	2.4
3-4	.0	.6	.4	.1	.0	.0	1.1	.0	.6	.9	.4	.0	.0	1.9
5-6	.0	.0	.1	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.0
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.1	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	2.1	.5	.0	.0	5.9	.1	2.4	3.9	.4	.1	.0	6.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	1.3	.2	.0	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	1.1
1-2	.1	.8	3.3	.0	.0	.0	4.2	.0	1.0	1.3	.0	.0	.0	2.4
3-4	.1	1.2	2.2	.7	.0	.0	4.2	.0	.2	1.2	1.6	.0	.0	3.1
5-6	.0	.3	1.4	.3	.1	.0	2.4	.0	.4	1.6	.7	.0	.0	2.6
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.5	.1	.0	1.4
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.4	.2	.0	1.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.5	.2	.0	.7
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.3	.1	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	7.5	1.1	.1	.0	13.2	.0	2.7	5.2	4.3	.8	.1	13.2

PERIOD: (OVER-ALL) 1963-1972

NOVEMBER

AREA 0040 ASTORIA
46.7N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	1.2	.1	.0	.0	.0		1.4	.1	.9	.0	.0	.0	.0		1.0
1-2	.0	2.0	1.7	.0	.0	.0		3.7	.0	1.2	1.7	.0	.0	.0		3.0
3-4	.0	.7	3.3	1.5	.0	.0		5.5	.0	.5	2.1	.6	.0	.0		3.2
5-6	.0	.3	2.3	1.4	.3	.0		4.4	.0	.3	1.0	.4	.0	.0		1.6
7	.0	.2	.7	1.0	.0	.0		1.9	.0	.*	.2	.3	.*	.0		.6
8-9	.0	.0	.2	1.2	.3	.0		1.7	.0	.1	.2	.4	.0	.0		.8
10-11	.0	.0	.2	.9	.4	.0		1.5	.0	.0	.2	.1	.0	.0		.3
12	.0	.0	.0	.3	.2	.0		.5	.0	.0	.2	.0	.0	.0		.2
13-16	.0	.0	.0	.3	.1	.0		.4	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.*		.*
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	4.4	8.5	6.7	1.5	.1		21.3	.1	3.1	5.8	1.8	.1	.*		10.9

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.4	.1	.0	.0	.0		1.5	.2	.7	.1	.0	.0	.0		1.0
1-2	.0	.8	1.6	.0	.0	.0		2.4	.1	1.0	.3	.0	.0	.0		1.7
3-4	.0	.7	1.5	.4	.0	.0		2.6	.0	.6	.6	.4	.0	.0		1.6
5-6	.0	.2	.5	.3	.0	.0		1.0	.0	.6	1.7	.1	.0	.0		2.4
7	.0	.2	.6	.2	.1	.0		1.1	.0	.1	.7	.*	.0	.0		.9
8-9	.0	.2	.5	.1	.0	.0		.8	.0	.0	.1	.4	.0	.0		.5
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.3	.1	.1	.0		.6
12	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.1	.1	.0		.2
13-16	.0	.1	.0	.1	.3	.0		.5	.0	.1	.0	.1	.*	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.*	.0	.0		.*
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.6	5.0	1.5	.6	.0		10.7	.3	3.1	4.2	1.2	.2	.0		91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	9.4	.6	.0	.0	.0	20.0	
1-2	.2	8.1	13.2	.0	.0	.0	21.5	
3-4	.1	5.2	12.3	5.7	.0	.0	23.3	
5-6	.0	2.2	10.0	3.3	.4	.0	16.0	
7	.0	.6	3.4	2.1	.3	.0	6.4	
8-9	.0	.3	1.6	2.6	.6	.0	5.0	
10-11	.0	.0	.9	1.9	.7	.0	3.4	
12	.0	.0	.3	1.0	.6	.0	1.9	
13-16	.0	.2	.0	.7	.6	.0	1.4	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.2	.1	.1	.4	
23-25	.0	.0	.0	.0	.1	.1	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	26.1	42.3	17.5	3.6	.2	100.0	901

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	4.4	10.2	11.6	6.2	1.9	1.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319
6-7	.0	1.3	5.9	7.6	5.9	5.6	2.8	1.3	.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	450
8-9	.0	.6	1.8	2.3	3.0	2.2	2.4	.6	1.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	212
10-11	.0	.0	.9	.4	1.1	.8	1.0	.6	.9	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	87
12-13	.0	.0	.1	.0	.2	.3	.1	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
>13	.0	.0	.0	.0	.2	.0	.4	.2	.4	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	25
INDEX	1.6	.7	1.4	1.3	.7	.7	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104
TOTAL	25	98	288	328	246	164	118	47	69	11	14	5	5	0	0	0	0	0	0	0	1418
PCT	1.6	6.9	20.3	23.1	17.3	11.6	8.3	3.3	4.9	.8	1.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	100.0

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WNO PCPN	FOG WNO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG	NO SIG WEA
N	1.6	.0	2.1	.0	1.6	.0	.0	3.2	3.6	.0	4.1	.0	.0	.0	87.0
NE	2.1	.0	2.8	.0	4.3	.0	.0	8.0	.0	.0	3.1	.0	.0	.0	89.0
E	4.4	.8	4.1	.0	3.7	.0	.0	12.3	2.4	.0	4.2	.0	1.8	.5	78.7
SE	20.4	3.3	7.5	.0	2.0	.0	.2	32.7	2.6	.7	2.5	.0	.2	1.5	60.0
S	27.5	3.5	10.5	.0	.5	.0	.2	41.2	5.5	.5	7.1	.0	.0	1.8	43.9
SW	17.9	4.7	7.1	.0	.1	.0	.0	28.7	5.3	.1	7.0	.0	.5	1.0	57.4
W	7.3	4.6	6.8	.0	.0	.0	.8	19.3	4.3	.0	3.5	.0	.0	1.5	71.4
NW	5.3	2.5	3.8	.0	.8	.0	.8	12.3	3.6	.8	.9	.0	.0	1.1	81.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	12.5	.0	1.6	.0	.0	14.1	.0	.0	7.8	.0	.0	.0	78.1
TOT PCT	14.0	2.9	7.1	.0	1.3	.0	.2	24.7	3.8	.3	4.8	.0	.3	1.1	65.0
TOT OBS:	1327														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	12.1	2.0	9.5	.0	1.3	.0	.3	23.3	4.5	.3	5.3	.0	.3	1.8	64.1
06009	15.4	2.3	5.4	.0	.8	.0	.4	23.9	1.9	.0	4.6	.0	.4	.4	68.7
12015	18.6	3.4	6.4	.0	1.9	.0	.3	30.0	4.5	.5	3.7	.0	.0	1.3	59.9
18021	10.6	3.5	6.7	.0	1.3	.0	.0	21.5	3.5	.3	5.4	.0	.6	.6	67.9
TOT PCT TOT OBS:	14.2 1346	2.8	7.2	.0	1.3	.0	.2	25.0	3.8	.3	4.8	.0	.3	1.1	64.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	1.4	1.3	.7	*	.0		3.7	12.9	4.6	1.9	5.5	5.5	3.4	4.1	2.8	2.8	
NE	.4	2.6	2.0	.7	.1	.1		5.9	12.8	5.5	7.1	6.5	7.8	6.4	6.9	5.0	3.5	
E	.3	3.4	9.9	1.9	.1	.1		11.7	14.8	10.4	9.8	7.8	8.6	12.0	16.2	14.4	13.5	
SE	.2	2.4	5.8	3.0	1.5	.3		13.1	20.0	12.7	11.2	9.4	15.6	17.1	11.7	11.7	17.4	
S	.2	3.2	8.5	8.3	3.8	.4		24.5	22.7	22.7	25.8	29.7	23.4	22.9	25.0	23.3	24.3	
SW	.5	2.5	6.0	4.6	1.5	.0		15.1	19.4	14.8	17.4	13.1	17.6	12.7	13.5	15.6	20.1	
W	.4	2.8	4.8	3.3	.6	.1		12.1	18.1	14.2	11.2	10.3	9.0	11.6	7.1	15.8	11.6	
NW	.1	2.0	4.7	2.2	.5	.0		9.6	17.4	10.4	9.8	10.7	12.5	8.9	9.5	9.6	6.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.3							4.3	.0	4.8	5.7	7.0	.0	6.9	6.1	1.9	.7	
TOT OBS	106	316	604	384	126	13	1349		17.9	294	158	215	64	263	148	263	144	
TOT PCT	6.8	20.4	39.0	24.8	8.1	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	12	15	18	21
N	1.1	1.5	.9	.2	.0			3.7	12.9	3.7	5.5	5.5	3.6	2.8			
NE	1.8	2.4	1.5	.1	.1			5.9	12.8	6.1	6.8	6.6	4.5				
E	1.5	5.8	3.9	.4	.1			11.7	14.8	10.2	8.0	13.5	14.1				
SE	.6	5.1	4.7	2.1	.6			13.1	20.0	12.2	10.8	15.1	13.7				
S	1.1	6.4	9.7	5.9	1.4			24.5	22.7	23.8	28.2	23.7	23.6				
SW	1.0	5.4	6.4	2.2	.2			15.1	19.4	15.7	14.2	13.0	17.2				
W	1.1	4.5	4.4	1.8	.2			12.1	18.1	13.2	10.0	10.0	14.3				
NW	.7	4.3	3.6	.8	.1			9.6	17.4	10.2	11.1	9.1	8.4				
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0				
CALM	4.3							4.3	.0	5.1	5.4	5.4	1.5				
TOT OBS	206	548	542	211	42	1349			17.9	452	279	411	407				
TOT PCT	13.3	35.4	35.0	13.6	2.7			100.0		100.0	100.0	100.0	100.0				

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	5.1	2.4	17.7	41.2	23.2	9.5	.9	18.2	100.0	452	
0600Z	5.4	1.8	22.2	40.1	22.2	7.9	.4	17.3	100.0	279	
1200Z	5.4	3.2	20.7	36.3	28.7	4.9	1.0	17.4	100.0	411	
1800Z	1.5	2.7	21.9	38.6	24.3	10.1	1.0	18.7	100.0	407	
TOT	66	40	316	604	384	126	13	17.9		1549	
PCT	4.3	2.6	20.4	39.0	24.8	8.1	.8	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.9	.7	1.3	1.0		4.9
NE	3.4	.4	1.6	.9		3.3
E	4.0	.8	3.6	3.6		4.6
SE	1.4	.6	2.7	6.7		6.4
S	.8	.8	5.9	15.8		7.2
SW	.5	1.3	3.6	8.6		6.9
W	1.3	1.5	5.3	4.8		6.1
NW	1.5	2.5	4.1	2.7		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.8	.3	1.4	2.1		4.9
TOT OBS	149	83	281	442	955	5.9
TOT PCT	15.6	8.7	29.4	46.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.2	.1	.3	.8	.4	.1	.0	.0	.0	1.9	
.1	.0	.0	.4	.8	.5	.0	.0	.0	.0	4.5	
.1	.1	.5	1.6	2.1	.6	.3	.0	.0	.0	6.7	
.5	.2	1.4	1.9	2.8	1.0	.4	.2	.1	.1	2.9	
4.1	1.0	2.1	5.7	5.2	1.5	.7	.0	.1	.1	2.9	
1.1	.3	.9	3.8	3.4	1.4	.3	.0	.0	.0	2.5	
.2	.6	1.0	2.5	1.9	1.2	.3	.0	.2	.0	4.8	
.1	.2	.3	1.8	1.5	1.5	.0	.0	.0	.0	5.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.5	.0	.1	.4	1.4	.1	.2	.0	.0	.0	2.8	
66	25	61	176	190	79	23	2	4	1	328	
6.9	2.6	6.4	18.4	19.9	8.3	2.4	.2	.4	.1	34.3	955
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.2	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.4	.7	.7	.7	.7	.7	.7	.7
= OR >3500	2.1	3.0	3.1	3.2	3.2	3.2	3.2	3.2
= OR >2000	7.6	10.0	10.8	10.9	11.4	11.4	11.4	11.4
= OR >1000	19.6	27.4	29.7	30.4	31.3	31.3	31.3	31.3
= OR >600	29.9	44.1	47.6	48.6	49.6	49.7	49.7	49.7
= OR >300	31.9	47.9	53.2	54.8	55.9	56.1	56.1	56.1
= OR >150	32.3	49.6	55.5	57.2	58.3	58.6	58.6	58.6
= OR >0	32.3	50.4	57.3	61.4	63.4	63.2	63.4	63.6
TOTAL	312	484	550	589	609	626	628	630

TOTAL NUMBER OF OBS: 960

PCT FREQ NM <5/8: 34.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.0	3.6	7.0	8.0	5.7	7.3	7.9	12.7	32.2	5.8	991

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.4	.2	.1	.0	.0	.0	.7	
	NO PCP	.2	.0	.0	.1	.4	.2	.1	.0	.0	.2	1.1	
	TOT %	.2	.0	.0	.1	.7	.5	.2	.0	.0	.2	1.8	
1/2<1	PCP	.1	.1	.0	.1	.3	.3	.0	.0	.0	.2	1.1	
	NO PCP	.0	.0	.2	.1	.5	.4	.1	.0	.0	.0	1.4	
	TOT %	.1	.1	.2	.2	.8	.7	.1	.0	.0	.2	2.4	
1<2	PCP	.0	.0	.1	.8	1.3	.2	.1	.2	.0	.2	2.7	
	NO PCP	.0	.0	.1	.0	.5	.2	.1	.0	.0	.0	1.0	
	TOT %	.0	.0	.2	.8	1.8	.4	.1	.2	.0	.2	3.7	
2<5	PCP	.0	.0	.2	.6	2.5	1.1	.5	.1	.0	.0	6.0	
	NO PCP	.0	.2	.3	.3	.9	.5	.2	.3	.0	.0	2.7	
	TOT %	.0	.2	.4	1.0	4.4	1.6	.7	.4	.0	.0	8.7	
5<10	PCP	.1	.2	.7	1.9	4.1	2.0	1.3	.3	.0	.2	10.7	
	NO PCP	.5	.7	1.5	1.9	4.2	3.6	2.7	2.0	.0	.4	17.6	
	TOT %	.6	.9	2.2	3.8	8.2	5.6	4.0	2.4	.0	.5	28.3	
10+	PCP	.1	.2	.5	.3	.7	.6	.5	.6	.0	.1	3.7	
	NO PCP	2.8	4.7	8.1	5.3	8.1	5.8	6.7	6.4	.0	3.5	51.4	
	TOT %	2.8	4.9	8.7	5.6	8.8	6.5	7.3	7.0	.0	3.6	55.1	
TOT OBS													1326
TOT PCT		9.6	6.2	11.7	11.5	24.8	19.2	12.3	9.9	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	22+	.0	.0	.1	.0	.3	.2	.1	.0	.0	.0	.8	
	TOT %	.1	.0	.1	.1	.7	.4	.1	.0	.0	.2	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.4	
	4-10	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.1	.0	.1	.0	.3	.2	.1	.0	.0	.0	.8	
	22+	.0	.1	.0	.2	.5	.2	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.2	.2	.7	.6	.1	.0	.0	.2	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.1	.6	.1	.1	.1	.0	.0	1.0	
	22+	.0	.0	.1	1.0	1.4	.1	.1	.0	.0	.0	2.6	
	TOT %	.0	.0	.2	1.1	1.9	.3	.1	.1	.0	.2	4.0	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.4	.1	.2	.1	.0	.0	1.1	
	11-21	.0	.1	.1	.3	.7	.4	.3	.1	.0	.0	2.1	
	22+	.0	.0	.1	.6	3.3	1.1	.1	.2	.0	.0	5.3	
	TOT %	.1	.2	.4	.9	4.4	1.7	.6	.4	.0	.0	8.6	
5<10	0-3	.0	.1	.1	.1	.0	.2	.1	.0	.0	.5	1.1	
	4-10	.2	.2	.4	.5	.8	1.0	1.0	.5	.0	.0	4.5	
	11-21	.2	.4	.9	1.4	3.0	2.0	1.0	.8	.0	.0	9.8	
	22+	.2	.2	.8	1.6	4.2	2.5	1.8	1.0	.0	.0	12.2	
	TOT %	.6	.9	2.1	3.7	8.0	5.6	3.9	2.3	.0	.5	27.5	
10+	0-3	.2	.4	.3	.1	.1	.1	.2	.1	.0	3.5	4.9	
	4-10	1.1	2.4	2.5	1.7	1.9	1.1	1.8	1.5	.0	.0	14.1	
	11-21	1.1	1.5	4.9	3.4	3.9	3.4	3.4	3.8	.0	.0	25.3	
	22+	.5	.7	1.0	1.1	2.8	2.0	1.8	1.6	.0	.0	11.3	
	TOT %	3.0	4.9	8.6	6.3	8.8	6.6	7.2	7.0	.0	3.5	55.8	
TOT OBS													1415
TOT PCT		3.8	6.1	11.6	12.3	24.5	19.2	12.1	9.8	.0	4.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	7.7	3.4	8.7	21.5	18.5	4.4	3.0	.0	.0	.0	67.1	32.9	298
06009	8.1	1.1	3.2	12.4	16.8	9.7	.5	.0	.5	.0	52.4	47.6	185
12015	4.5	2.0	4.9	16.3	20.7	11.8	2.8	.4	.4	.4	64.2	35.8	246
18021	7.4	3.3	7.4	20.5	22.5	8.2	2.9	.4	.8	.0	73.4	26.6	244
TOT	67	25	62	177	192	80	24	2	4	1	634	339	973
PCT	6.9	2.6	6.4	18.2	19.7	8.2	2.5	.2	.4	.1	65.2	34.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.5	2.3	4.1	9.6	25.5	56.0	436
06009	2.2	1.1	3.7	10.6	23.8	58.6	273
12015	.8	2.3	3.8	7.0	33.1	53.1	399
18021	1.5	3.1	9.5	8.0	26.1	55.8	326
TOT	25	32	61	125	393	798	1434
PCT	1.7	2.2	4.3	8.7	27.4	55.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.8	21.4	46.1	21.7	32.2	295
06009	8.9	13.3	30.0	23.3	46.7	180
12015	4.5	12.2	31.4	32.7	35.9	245
18021	7.1	19.2	42.9	32.1	25.0	240
TOT	67	163	370	263	327	960
PCT	7.0	17.0	38.5	27.4	34.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.1	.2	.1	.1	.0	5	.5
55/59	.0	.0	.0	.2	.4	.1	.7	.3	17	1.6
50/54	.0	.0	.1	.5	1.3	3.7	8.8	16.9	330	31.3
45/49	.0	.0	.0	.7	2.6	4.8	12.2	18.0	403	38.3
40/44	.0	.1	.1	.4	1.3	2.3	3.4	12.9	216	20.5
35/39	.0	.0	.2	.2	.0	.5	.7	2.6	43	4.1
30/34	.0	.0	.0	.2	.2	.2	.3	.9	19	1.8
25/29	.0	.0	.0	.0	.0	.3	.4	.9	16	1.5
20/24	.0	.0	.0	.0	.0	.0	.1	.3	4	.4
TOTAL	0	1	4	23	63	126	280	556	1033	100.0
PCT	.0	.1	.4	2.2	6.0	12.0	26.6	52.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.5	.8	.0	.0	.0	.0
.0	.0	.0	.4	.6	.5	.0	.1	.0	.0
.3	.5	1.9	4.1	13.3	6.6	2.7	1.5	.0	.4
1.6	1.7	2.5	4.5	7.8	5.4	6.6	5.6	.0	2.7
.9	2.3	4.9	1.9	2.6	1.5	3.2	2.4	.0	1.0
.3	.5	1.0	.8	.6	.2	.8	.2	.0	.4
.1	.6	.6	.5	.0	.0	.0	.0	.0	.0
.3	.3	.8	.1	.0	.0	.0	.0	.0	.0
.0	.1	.3	.0	.0	.0	.0	.0	.0	.0
3.5	6.0	12.0	12.2	25.4	14.2	12.5	9.7	.0	4.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	55	53	48	37	29	25	46.9	455
06009	59	55	54	47	37	27	26	46.6	281
12015	63	56	53	47	35	27	22	46.0	416
18021	63	57	54	48	39	26	20	47.5	408
TOT	63	56	54	48	37	27	20	46.8	1560

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.2	4.4	10.7	27.7	35.0	89	318		
06009	.0	3.0	8.5	12.1	27.1	49.2	86	199		
12015	.0	2.9	2.9	11.0	26.5	56.6	89	309		
18021	.0	2.9	10.0	14.9	24.1	48.1	86	241		
TOT	0	29	64	128	282	564	88	1067		

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1862-1972

DECEMBER

AREA 0040 ASTORIA
46.0N 124.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.1	7	.0	.6
6	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	6	.0	.5
5	.0	.0	.0	.0	.0	.0	.1	.1	.3	.1	.0	7	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.6	.6	.1	.0	15	.2	1.0
3	.0	.0	.0	.0	.0	.0	.3	1.8	.9	.1	.0	38	.2	2.9
2	.0	.0	.0	.0	.0	.0	.1	4.5	1.4	.0	.0	75	.4	5.6
1	.0	.0	.0	.0	.0	.1	1.3	6.1	.9	.1	.0	106	.8	7.6
0	.0	.0	.0	.0	.0	.3	3.4	6.6	1.0	.0	.1	143	.6	10.8
-1	.0	.0	.0	.0	.0	.5	2.9	4.5	1.0	.0	.0	113	.6	8.4
-2	.0	.0	.0	.0	.0	1.0	8.4	3.4	.2	.0	.0	139	.6	10.5
-3	.0	.0	.0	.0	.0	1.5	5.2	1.8	.2	.0	.0	109	.4	8.3
-4	.0	.0	.0	.1	.2	2.4	4.8	.6	.2	.0	.0	103	.3	7.9
-5	.0	.0	.0	.0	.2	2.1	4.9	.9	.1	.0	.0	103	.2	8.0
-6	.0	.0	.0	.0	.9	2.8	1.4	.2	.0	.0	.0	66	.3	4.9
-7/-8	.0	.0	.1	.0	1.5	4.6	1.5	.3	.0	.0	.0	101	.2	7.8
-9/-10	.0	.0	.1	.2	1.8	1.7	.4	.2	.0	.0	.0	34	.1	4.2
-11/-13	.0	.1	.0	1.0	.4	.4	.1	.1	.0	.0	.0	26	.1	2.0
-14/-16	.0	.1	.6	.4	.1	.0	.0	.0	.0	.0	.0	15	.0	1.2
-17/-19	.0	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	13	.0	1.0
-20/-22	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.6
-23/-25	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.4
TOTAL	4	14	17	63	219	413	404	87	10	2	2	1257	62	1195
PCT	.3	1.1	1.4	1.9	5.0	17.4	32.9	32.1	6.9	.8	.2	100.0	4.9	95.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.7	.0	.0	.0	.0	1.0		.4	1.5	.0	.0	.0	.0		1.9
1-2	.0	.3	.2	.0	.0	.0	.6		.1	1.4	.6	.0	.0	.0		2.2
3-4	.0	.0	.2	.0	.0	.0	.2		.0	.0	.4	.5	.0	.0		1.0
5-6	.0	.0	.1	.1	.0	.0	.3		.0	.1	.2	.2	.0	.0		.5
7	.0	.0	.0	.1	.0	.0	.1		.0	.0	.2	.1	.0	.0		.3
8-9	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.1	.0		.1
10-11	.0	.0	.0	.3	.0	.0	.3		.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	1.1	.8	.6	.0	.0	2.6		.6	3.0	1.4	.9	.1	.0		6.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.8	.1	.0	.0	.0	2.3		.4	.4	.1	.0	.0	.0		.6
1-2	.0	1.2	2.2	.0	.0	.0	3.4		.1	.6	.9	.0	.0	.0		1.6
3-4	.0	.3	1.6	.5	.0	.0	2.4		.0	.2	1.1	.8	.0	.0		2.1
5-6	.0	.0	.6	.3	.0	.0	1.0		.0	.0	.8	.1	.3	.0		1.1
7	.0	.0	.2	.0	.1	.0	.3		.0	.0	.6	.6	.8	.0		1.9
8-9	.0	.0	.0	.1	.0	.0	.1		.0	.0	.1	.3	.4	.0		.4
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.6	.0		1.1
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.3	.0		.3
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.5	.0		.5
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.3	4.7	1.0	.1	.0	9.5		.2	1.2	3.6	2.4	2.5	.0		9.7

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0040 ASTORIA
46.6N 124.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0	.8	.1	.2	.0	.0	.0	.0	.0	.0	.4
1-2	.1	.3	.5	.0	.0	.0	.9	.0	.5	.6	.0	.0	.0	.0	.0	1.1
3-6	.0	.6	2.2	2.4	.0	.0	5.2	.2	.9	2.2	.5	.0	.0	.0	.0	3.7
5-6	.0	.1	2.9	3.0	1.0	.0	7.0	.0	.2	1.4	1.9	.3	.0	.0	.0	3.8
7	.0	.1	1.3	1.8	2.3	.0	5.5	.0	.0	1.1	.7	.6	.0	.0	.0	2.5
8-9	.0	.0	.8	.9	.5	.0	2.1	.0	.0	.6	1.3	.1	.0	.0	.0	2.0
10-11	.0	.0	.0	1.2	1.0	.0	2.2	.0	.2	.3	.4	.0	.0	.0	.0	.9
12	.0	.0	.1	.5	.4	.0	1.1	.0	.0	.0	.5	.1	.0	.0	.0	.7
13-16	.0	.0	.1	.1	.3	.3	.8	.0	.0	.0	.2	.1	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	7.9	9.9	5.5	.4	25.5	.3	2.0	6.2	5.5	1.4	.0	.0	.0	15.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	1.8	.0	.0	.0	.0	1.9	.2	1.2	.0	.0	.0	.0	.0	.0	1.4	
1-2	.0	1.1	.8	.0	.0	.0	1.8	.0	.5	.9	1.0	.0	.0	.0	.0	1.4	
3-6	.1	.6	1.7	1.0	.0	.0	3.4	.0	.3	1.2	.4	.0	.0	.0	.0	2.0	
5-6	.0	.2	1.1	.7	.0	.0	2.0	.0	.2	2.0	.6	.0	.0	.0	.0	2.8	
7	.0	.1	.6	.5	.1	.0	1.3	.0	.0	.3	.3	.0	.0	.0	.0	.7	
8-9	.1	.0	.2	.5	.0	.0	.9	.0	.0	.0	.3	.0	.0	.0	.0	.3	
10-11	.0	.1	.3	.3	.0	.0	.7	.0	.0	.2	.5	.1	.0	.0	.0	.8	
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.9	4.7	3.2	.5	.0	12.8	.2	2.2	4.6	2.7	.4	.0	.0	10.1	91.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	8.4	.3	.0	.0	.0	18.2	
1-2	.4	6.1	6.7	.0	.0	.0	13.2	
3-6	.3	2.9	10.6	6.1	.0	.0	19.9	
5-6	.1	.8	9.0	6.9	1.6	.0	18.5	
7	.0	.3	4.4	4.2	3.8	.0	12.7	
8-9	.1	.0	1.8	3.4	.8	.0	6.1	
10-11	.0	.3	.8	3.1	1.8	.0	6.0	
12	.0	.0	.1	1.1	.2	.0	2.5	
13-16	.0	.0	.1	.7	1.2	.3	2.3	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.5	18.8	33.8	26.0	10.5	.4	100.0	734

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	4.5	10.2	10.1	3.7	2.1	1.6	1.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	367	5
6-7	.0	2.0	5.6	7.5	6.4	5.9	3.1	2.7	1.7	.5	.3	.0	.2	.0	.0	.0	.0	.0	.0	378	7
8-9	.0	.8	1.1	1.3	2.3	2.7	2.3	.8	1.8	1.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	161	9
10-11	.0	.1	.0	.3	.8	.8	1.0	.8	.8	.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	65	12
12-13	.0	.0	.0	.2	.4	.2	.3	.2	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	20	11
>13	.0	.0	.0	.2	.2	.0	.7	.1	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	21	12
IND-T	.7	.0	.7	.5	.8	.4	.4	.4	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	44	7
TOTAL	11	78	186	212	153	127	99	63	62	34	24	3	4	0	0	0	0	0	0	1056	7
PCT	1.0	7.4	17.6	20.1	14.5	12.0	9.4	6.0	5.9	3.2	2.3	.3	.4	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1974
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.4	.8	1.7	.0	.4	.0	.0	5.1	1.1	.0	7.0	.2	2.8	.0	83.7
NE	2.3	.3	2.1	.0	.3	.0	.0	5.2	.6	.2	4.7	.0	4.5	.1	84.8
E	5.7	.4	4.0	.0	.4	.0	.1	10.3	1.7	.0	6.4	.0	4.6	.1	76.8
SE	15.4	3.1	7.0	.0	.3	.0	.0	25.4	3.3	.3	8.6	.3	1.6	.5	60.1
S	17.8	3.2	8.4	.0	.1	.0	.1	28.9	3.3	.3	10.1	.3	1.3	.6	55.2
SW	11.4	2.8	6.6	.0	.0	.0	.3	21.6	4.2	.0	7.9	.2	.7	.1	65.0
W	5.0	3.4	5.2	.0	.4	.0	.3	13.9	4.2	.2	5.7	.2	1.0	.3	74.5
NW	2.5	2.1	2.6	.0	.0	.0	.4	7.9	2.5	.3	5.7	.2	2.0	.2	81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	.4	3.3	.0	.3	.0	.0	5.2	.9	.2	12.4	.1	2.2	.0	79.1
TOT PCT	7.9	2.1	4.7	.0	.3	.0	.2	14.8	2.5	.2	7.6	.2	2.1	.3	72.4
TOT OBS: 22336															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	7.4	1.8	4.3	.0	.3	.0	.1	13.5	2.1	.1	8.1	.2	2.9	.3	72.9
0600	8.2	2.2	4.5	.0	.3	.0	.3	15.0	2.8	.3	6.1	.2	1.1	.1	74.5
1200	9.0	2.2	5.5	.0	.4	.0	.2	16.9	2.4	.3	7.7	.1	1.8	.3	70.5
1800	6.9	2.0	4.5	.0	.2	.0	.1	13.4	3.2	.0	8.2	.4	2.7	.1	72.0
TOT PCT	7.9	2.0	4.7	.0	.3	.0	.2	14.8	2.5	.2	7.6	.2	2.1	.3	72.3
TOT OBS: 22957															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.7	5.3	5.3	.9	.1	.0		12.3	12.1	11.6	11.9	13.7	13.3	12.9	11.1	11.6	12.6	
NE	.3	2.2	1.7	.3	.0	.0		4.6	10.9	3.7	4.2	3.5	5.0	4.9	6.4	5.3	4.1	
E	.3	2.5	3.1	.9	.1	.0		6.9	11.7	5.1	6.0	5.5	4.9	7.1	10.4	9.2	6.7	
SE	.4	3.0	7.4	1.7	.3	.1		9.1	14.8	8.0	7.3	7.5	10.8	9.1	9.9	9.8	12.7	
S	.3	4.4	6.1	3.8	1.2	.2		16.2	18.3	17.4	16.7	16.2	14.7	15.0	16.4	16.8	16.0	
SW	.5	3.8	4.2	1.7	.4	.0		10.6	13.6	10.8	11.2	10.8	12.2	10.3	9.8	9.9	12.2	
W	.7	5.2	4.8	1.4	.3	.0		12.4	13.0	13.2	13.6	12.7	13.5	12.5	10.4	11.4	14.0	
NW	.9	6.3	9.5	2.2	.3	.0		21.1	14.1	23.9	23.4	22.9	23.0	20.4	18.2	18.2	18.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.7							6.7	.0	6.3	5.8	7.1	2.6	7.8	7.5	7.8	3.0	
TOT OBS							25148		13.2	4749	2244	3955	1026	4617	2457	4275	1625	
TOT PCT	11.0	34.6	38.3	12.9	2.9	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40							00	03	06	09	12
N	2.7	6.7	2.6	.2	.0			12.3	12.1	11.7	13.7	12.2	11.9		
NE	1.2	2.4	.8	.1	.0			4.6	10.9	3.9	3.9	3.5	5.0		
E	1.3	3.5	1.8	.3	.0			6.9	11.7	5.4	5.4	5.3	6.3		
SE	1.6	3.8	2.4	1.0	.2			9.1	14.8	7.8	6.2	9.4	11.0		
S	2.1	6.3	3.1	2.4	.4			16.2	18.3	17.2	15.8	15.4	16.5		
SW	2.0	5.0	2.7	.8	.1			10.6	13.6	10.9	11.0	10.1	10.6		
W	2.9	6.1	2.7	.6	.1			12.4	13.0	13.2	12.8	11.6	11.9		
NW	4.0	11.2	3.1	.7	.1			21.1	14.1	23.7	22.9	19.7	18.3		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	6.7							6.7	.0	6.2	6.2	7.7	6.5		
TOT OBS							25148		13.2	6993	4981	7074	6100		
TOT PCT	24.6	44.9	23.3	6.2	1.0			100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	6.2	3.8	33.4	39.5	13.5	3.3	.3	13.6	100.0	6993
06009	6.2	3.2	34.0	40.6	13.1	2.6	.3	13.5	100.0	4981
12015	7.7	4.3	35.1	37.4	12.8	2.4	.3	12.9	100.0	7074
18021	6.5	5.7	35.8	35.9	12.1	3.3	.6	13.0	100.0	6100
TOT								13.2		25148
PCT	6.7	4.3	34.6	38.3	12.9	2.9	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	4.8	1.7	2.7	3.3		4.2
NE	2.4	.5	.9	.9		3.5
E	2.6	.7	1.7	2.1		4.6
SE	1.0	.5	1.9	4.9		6.5
S	.8	.8	3.9	10.4		6.9
SW	.7	1.0	3.2	5.2		6.5
W	1.4	1.7	4.5	4.5		5.8
NW	5.1	3.1	6.5	6.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.9	1.9	3.1		5.2
TOT OBS					16430	5.5
TOT PCT	20.9	11.0	27.2	40.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.7	.1	.2	.7	1.4	1.4	.5	.1	.1	.1	7.3	
NE	.1	.1	.3	.3	.4	.3	.2	.1	.1	.1	3.3	
E	.3	.1	.2	.9	.9	.4	.2	.1	.1	.1	4.2	
SE	.6	.1	.4	1.4	1.8	1.1	.3	.1	.1	.1	2.7	
S	2.4	.3	1.0	3.3	3.2	1.7	.5	.1	.1	.1	3.2	
SW	1.0	.1	.5	1.6	2.1	1.3	.4	.1	.1	.1	2.9	
W	.5	.1	.4	1.8	2.7	1.5	.5	.1	.1	.1	4.5	
NW	1.0	.2	.4	2.0	3.6	3.0	.9	.2	.1	.1	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.1	.2	.6	.8	1.1	.4	.1	.1	.1	3.6	
TOT OBS	7.4	1.0	3.4	12.5	16.8	11.8	3.9	.7	.7	.5	16430	
TOT PCT											100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >5000	.8	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>OR >5000	1.4	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>OR >3500	4.3	5.6	5.8	5.8	5.8	5.9	5.9	5.9
>OR >2000	11.3	16.7	17.5	17.6	17.7	17.7	17.7	17.7
>OR >1000	21.5	32.1	33.9	34.2	34.4	34.5	34.5	34.5
>OR >600	28.4	43.1	45.9	46.6	46.9	47.0	47.0	47.0
>OR >300	29.4	45.4	48.8	49.8	50.2	50.3	50.4	50.4
>OR >150	29.6	46.1	49.7	50.7	51.2	51.3	51.3	51.4
>OR >0	29.9	47.3	52.0	54.2	56.4	57.5	58.6	58.7

TOTAL NUMBER OF OBS: 16603

PCT FREQ NM <5/8: 41.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.5	3.5	8.3	7.3	6.1	5.8	8.4	9.8	29.1	6.2	17383

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.4	.0	.1	.2	.3	.2	.1	.5	.0	.3	2.2	
	TOT %	.4	.0	.1	.3	.4	.2	.1	.5	.0	.3	2.5	
1/2<1	PCP	.0	.0	.0	.1	.2	.1	.0	.1	.0	.0	.5	
	NO PCP	.2	.1	.1	.2	.5	.3	.2	.3	.0	.2	2.1	
	TOT %	.3	.1	.1	.3	.7	.4	.3	.4	.0	.3	2.7	
1<2	PCP	.0	.0	.1	.2	.7	.2	.1	.1	.0	.0	1.5	
	NO PCP	.1	.0	.0	.1	.2	.1	.1	.1	.0	.1	.8	
	TOT %	.1	.0	.1	.3	.9	.3	.2	.2	.0	.1	2.3	
2<5	PCP	.1	.0	.1	.5	1.4	.5	.3	.2	.0	.1	3.1	
	NO PCP	.2	.1	.1	.3	.6	.3	.2	.3	.0	.1	2.2	
	TOT %	.2	.1	.3	.8	1.9	.8	.5	.5	.0	.2	5.3	
5<10	PCP	.3	.2	.4	1.1	2.3	1.2	.8	.6	.0	.2	6.9	
	NO PCP	2.7	.8	1.0	1.9	3.3	2.4	2.8	5.3	.0	1.3	21.4	
	TOT %	3.0	.9	1.4	3.0	5.6	3.5	3.6	5.8	.0	1.4	28.3	
10+	PCP	.1	.1	.2	.3	.5	.4	.4	.4	.0	.0	2.4	
	NO PCP	8.2	3.4	4.9	3.8	6.2	4.8	7.2	13.6	.0	4.4	56.5	
	TOT %	8.3	3.4	5.1	4.1	6.8	5.2	7.6	13.9	.0	4.5	58.9	
TOT OBS													22510
TOT PCT		12.3	4.6	7.0	8.7	16.3	10.5	12.3	21.4	.0	6.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.5	
	4-10	.3	.0	.1	.1	.2	.1	.1	.3	.0	.0	1.1	
	11-21	.1	.0	.0	.1	.1	.1	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.4	.0	.1	.2	.4	.2	.2	.5	.0	.3	2.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.1	.0	.0	.1	.1	.1	.1	.1	.0	.0	.6	
	11-21	.1	.0	.0	.1	.3	.1	.1	.2	.0	.0	1.0	
	22+	.0	.0	.0	.1	.3	.1	.0	.0	.0	.0	.6	
	TOT %	.3	.1	.1	.2	.7	.4	.3	.4	.0	.3	2.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.5	
	11-21	.0	.0	.1	.1	.3	.2	.1	.1	.0	.0	.9	
	22+	.0	.0	.0	.2	.5	.1	.0	.0	.0	.0	.8	
	TOT %	.1	.0	.1	.3	.9	.4	.2	.2	.0	.1	2.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.1	.0	.1	.2	.3	.2	.2	.2	.0	.0	1.3	
	11-21	.1	.0	.1	.2	.6	.3	.2	.2	.0	.0	1.9	
	22+	.0	.0	.0	.4	1.0	.3	.1	.1	.0	.0	1.9	
	TOT %	.3	.1	.3	.8	2.0	.9	.5	.5	.0	.2	5.6	
5<10	0-3	.1	.1	.1	.1	.1	.2	.2	.3	.0	1.4	2.6	
	4-10	1.2	.4	.5	.8	1.3	1.1	1.4	2.0	.0	.0	8.7	
	11-21	1.3	.3	.5	1.1	2.1	1.3	1.4	2.6	.0	.0	10.6	
	22+	.3	.1	.3	.9	2.0	.7	.6	.8	.0	.0	5.9	
	TOT %	2.9	.9	1.4	2.9	5.4	3.5	3.5	5.7	.0	1.4	27.7	
10+	0-3	.4	.1	.2	.2	.2	.4	.5	.5	.0	4.5	6.7	
	4-10	3.6	1.7	1.8	1.7	2.4	2.1	3.3	5.5	.0	.0	22.1	
	11-21	3.7	1.4	2.5	1.8	2.8	2.2	3.1	6.4	.0	.0	23.9	
	22+	.6	.3	.7	.5	1.3	.7	.9	1.5	.0	.0	6.5	
	TOT %	8.3	3.5	5.0	4.3	6.8	5.3	7.7	13.9	.0	4.5	59.2	
TOT OBS													23677
TOT PCT		12.3	4.6	7.0	8.8	16.2	10.6	12.4	21.3	.0	6.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.9	1.0	3.7	13.2	15.7	10.1	3.8	.7	.8	.4	56.3	43.7	4922
06009	6.9	.7	2.6	9.6	15.3	12.4	3.4	1.0	.7	.8	53.3	46.7	3490
12015	8.8	1.1	2.8	12.0	17.2	11.6	4.0	.6	.5	.4	59.0	41.0	4407
18021	6.5	1.2	4.0	13.9	17.8	13.4	4.3	.6	.8	.5	62.8	37.2	4032
TOT PCT	7.3	1.0	3.3	12.3	16.6	11.7	3.9	.7	.7	.5	58.0	42.0	16851 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.4	2.9	2.4	5.8	25.9	60.6	6793
06009	2.5	2.0	2.4	5.5	27.7	60.0	4927
12015	2.6	2.8	2.6	5.1	30.1	56.8	6922
18021	2.6	2.6	2.6	6.0	27.3	58.8	5461
TOT PCT	2.5	2.6	2.5	5.6	27.8	59.0	24103 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.0	12.6	28.2	29.5	42.3	4846
06009	7.0	10.6	23.5	31.2	45.3	3434
12015	8.9	13.1	27.7	32.5	39.8	4342
18021	6.6	12.5	28.8	35.3	35.8	3981
TOT PCT	7.4	12.3	27.3	32.1	40.6	16603 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	*	*
75/79	.0	*	*	*	*	*	.0	*	*	*
70/74	.0	*	.0	*	*	.1	*	*	.2	*
65/69	.0	.0	*	.1	.3	.4	.5	.4	1.7	*
60/64	.0	.0	*	.1	.8	2.3	3.9	3.6	10.9	*
55/59	*	*	*	.3	.9	3.3	7.9	12.4	24.8	*
50/54	*	*	.1	.3	1.6	3.5	8.5	12.4	26.5	*
45/49	.0	*	*	.4	1.7	4.1	7.2	11.4	24.9	*
40/44	.0	*	*	.2	.8	1.1	1.9	4.4	8.5	*
35/39	.0	.0	*	*	.1	.2	.4	1.1	1.9	*
30/34	.0	.0	*	*	*	.1	.1	.2	.4	*
25/29	.0	.0	.0	.0	.0	*	*	.1	.2	*
20/24	.0	.0	.0	.0	.0	*	*	*	*	*
TOTAL PCT	*	.1	.3	1.5	6.3	15.2	30.5	46.1	15464 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
75/79	*	*	.0	.0	*	*	.0	*	.0	.0
70/74	*	*	*	*	*	*	*	*	*	*
65/69	.3	.1	.1	*	.2	.2	.2	.4	.0	.2
60/64	2.1	.5	.4	.6	1.3	.9	1.2	3.1	.0	.9
55/59	4.2	.8	.8	1.7	3.6	2.1	3.0	6.9	.0	1.6
50/54	2.9	1.0	2.0	2.6	6.0	3.1	2.8	9.0	.0	1.1
45/49	2.2	1.3	2.1	2.3	4.8	3.1	3.6	6.3	.0	1.2
40/44	.6	.8	1.5	.7	.9	1.0	1.2	1.3	.0	.6
35/39	.1	.3	.5	.2	.1	.1	.3	.2	.0	.1
30/34	*	.1	.2	.1	*	.0	*	*	.0	*
25/29	*	*	.1	*	.0	.0	.0	.0	.0	.0
20/24	.0	*	*	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.4	4.8	7.7	8.2	16.9	10.4	12.5	21.3	.0	5.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	63	60	53	47	43	23	59.6	7076
06009	72	59	57	52	46	42	26	52.5	5039
12015	69	59	56	51	45	41	22	51.4	7186
18021	82	63	59	53	46	42	20	53.2	6101
TOT	83	62	58	52	46	42	20	52.6	25402

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	2.1	7.2	15.9	30.2	44.6	86	4492		
06009	*	1.7	5.9	15.6	31.1	43.7	87	3008		
12015	.0	1.2	4.4	12.9	29.4	52.1	88	4692		
18021	.0	2.3	8.4	17.4	31.3	40.3	85	3482		
TOT	3	290	1006	2392	4765	7218	87	15674		

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1857-1974

ANNUAL

TABLE 17

AREA 0040 ASTORIA
46.8N 124.9W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	114	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.2	.1	.0	.0	.0	159	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.4	.3	.1	.0	.0	.0	322	.1	1.3
6	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.3	.2	.0	.0	.0	.0	265	.1	1.1
5	.0	.0	.0	.0	.0	.0	.0	.2	.5	.6	.7	.1	.0	.0	.0	.0	489	.1	2.0
4	.0	.0	.0	.0	.0	.0	.1	.5	.7	.9	.9	.1	.0	.0	.0	.0	705	.2	3.0
3	.0	.0	.0	.0	.0	.0	.3	.9	1.4	1.4	.9	.1	.0	.0	.0	.0	1100	.4	4.6
2	.0	.0	.0	.0	.0	.0	.6	2.1	1.7	2.1	1.0	.1	.0	.0	.0	.0	1637	.7	6.8
1	.0	.0	.0	.0	.0	.1	1.3	2.9	2.6	2.9	.9	.1	.0	.0	.0	.0	2336	1.0	9.8
0	.0	.0	.0	.0	.0	.2	2.5	4.3	3.2	3.3	.9	.1	.0	.0	.0	.0	3118	1.4	13.1
-1	.0	.0	.0	.0	.0	.4	2.8	3.8	3.1	2.3	.6	.0	.0	.0	.0	.0	2799	1.1	11.9
-2	.0	.0	.0	.0	.0	.7	3.8	2.8	2.1	1.7	.4	.0	.0	.0	.0	.0	2439	.8	10.7
-3	.0	.0	.0	.0	.0	.9	3.3	1.9	1.6	.9	.3	.0	.0	.0	.0	.0	1849	.6	8.2
-4	.0	.0	.0	.0	.1	1.2	2.4	1.0	.9	.5	.0	.0	.0	.0	.0	.0	1273	.4	5.9
-5	.0	.0	.0	.0	.3	1.1	1.7	.8	.5	.3	.1	.0	.0	.0	.0	.0	942	.3	4.4
-6	.0	.0	.0	.0	.3	1.0	.6	.3	.3	.2	.0	.0	.0	.0	.0	.0	551	.1	2.6
-7/-8	.0	.0	.0	.1	.8	1.3	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	627	.2	3.1
-9/-10	.0	.0	.0	.2	.5	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	280	.1	1.4
-11/-13	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	.0	.6
-14/-16	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	.0	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.0
TOTAL																	21234		
PCT	.1	.3	.7	2.3	7.5	20.0	22.1	19.3	18.1	7.7	1.6	.3	.0	.0	.0	.0	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.4	.1	.0	.0	.0	2.9	<1	.1	1.3	.1	.0	.0	.0	1.8
1-2	.1	1.6	1.3	.0	.0	.0	3.0	1-2	.0	.6	.7	.0	.0	.0	1.3
3-4	.0	.8	1.7	.3	.0	.0	2.9	3-4	.0	.2	.6	.2	.0	.0	.9
5-6	.0	.3	.8	.2	.0	.0	1.3	5-6	.0	.0	.2	.1	.0	.0	.3
7	.0	.1	.4	.1	.0	.0	.7	7	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.1	.1	.0	.0	.2	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	4.6	.8	.1	.0	11.3	TOT PCT	.2	2.1	1.6	.3	.1	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.1	.0	.0	.0	1.7	<1	.2	1.4	.1	.0	.0	.0	1.4
1-2	.0	.7	1.2	.0	.0	.0	1.9	1-2	.0	.8	.7	.0	.0	.0	1.5
3-4	.0	.3	1.1	.4	.0	.0	1.9	3-4	.0	.4	.6	.3	.0	.0	1.7
5-6	.0	.1	.4	.4	.1	.0	.9	5-6	.0	.1	.5	.3	.1	.0	1.0
7	.0	.0	.1	.1	.1	.0	.2	7	.0	.0	.3	.3	.1	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.1	8-9	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	2.9	.9	.2	.0	6.7	TOT PCT	.3	2.7	2.5	1.5	.5	.0	7.5

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0040 ASTORIA
46.6N 124.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	1.9	.1	.0	.0	.0	2.2	.3	1.8	.1	.0	.0	.0	1.9	
1-2	.1	1.3	1.6	.0	.0	.0	3.0	.1	.9	1.1	.0	.0	.0	2.0	
3-4	.1	.5	2.1	1.0	.0	.0	3.6	.1	.8	1.5	.4	.0	.0	2.8	
5-6	.1	.2	1.5	1.4	.3	.0	3.3	.1	.2	.9	.5	.1	.0	1.7	
7	.0	.1	.7	.8	.3	.1	1.9	.0	.1	.5	.3	.1	.0	.9	
8-9	.0	.1	.2	.5	.1	.0	.8	.0	.1	.2	.3	.1	.0	.6	
10-11	.0	.1	.1	.4	.2	.0	.7	.0	.1	.1	.2	.1	.0	.4	
12	.0	.1	.1	.2	.2	.1	.5	.0	.1	.1	.1	.1	.0	.2	
13-16	.0	.0	.1	.2	.1	.1	.5	.0	.0	.1	.1	.1	.0	.1	
17-19	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.0	6.3	4.4	1.3	.2	16.7	.3	3.4	4.4	1.9	.3	.1	10.4	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	2.1	.1	.0	.0	.0	2.4	.5	3.8	.2	.0	.0	.0	4.6	
1-2	.1	1.4	1.1	.0	.0	.0	2.6	.2	2.4	2.2	.0	.0	.0	4.8	
3-4	.1	.9	1.5	.3	.0	.0	2.7	.1	1.4	3.4	.7	.0	.0	5.6	
5-6	.1	.4	.9	.4	.1	.0	1.7	.1	.7	2.1	.6	.1	.0	3.4	
7	.1	.1	.5	.3	.1	.0	.9	.1	.2	.8	.4	.1	.0	1.4	
8-9	.1	.1	.3	.2	.1	.0	.6	.0	.1	.3	.2	.1	.0	.5	
10-11	.0	.1	.1	.1	.0	.0	.3	.0	.1	.1	.2	.1	.0	.4	
12	.0	.1	.1	.1	.1	.0	.2	.0	.1	.1	.1	.1	.0	.2	
13-16	.0	.1	.1	.1	.1	.0	.2	.0	.1	.1	.1	.1	.0	.2	
17-19	.0	.0	.1	.1	.0	.0	.1	.0	.1	.1	.1	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.0	4.5	1.4	.3	.0	11.6	.8	8.7	9.3	2.2	.2	.0	21.1	89.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	15.9	.8	.0	.0	.0	29.4	
1-2	.6	9.7	9.8	.0	.0	.0	20.1	
3-4	.2	5.2	12.7	3.8	.0	.0	21.9	
5-6	.1	2.0	7.2	3.8	.8	.0	13.6	
7	.1	.5	3.3	2.2	.7	.1	6.8	
8-9	.1	.2	1.2	1.4	.3	.0	3.1	
10-11	.0	.1	.6	1.2	.4	.0	2.3	
12	.1	.1	.2	.4	.4	.1	1.1	
13-16	.1	.1	.2	.5	.3	.1	1.2	
17-19	.0	.1	.1	.1	.2	.1	.4	
20-22	.0	.0	.0	.1	.1	.1	.1	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.6	33.8	36.0	13.4	3.1	.2	100.0	12071

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.0	7.2	14.0	10.6	4.4	1.6	.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7243	4
6-7	.1	2.5	7.2	8.1	3.4	2.1	1.1	.8	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	5397	6
8-9	.1	1.0	2.3	3.4	2.8	1.9	1.4	.7	1.0	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	2578	7
10-11	.0	.2	.4	.6	.6	.6	.6	.4	.4	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	685	8
12-13	.0	.0	.3	.2	.2	.2	.3	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	274	9
>13	.0	.0	.0	.1	.2	.1	.2	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	142	11
INDEX	2.4	.8	.9	.9	.6	.3	.3	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	1289	3
TOTAL																				17608	5
PCT	3.5	11.8	25.2	23.9	14.2	8.1	5.6	3.0	2.9	.8	.6	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1857-1974

AREA 0040 ASTORIA
46.8N 124.9W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
98+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	3	.0
67/68	.0	.0	.0	.0	.0	.1	.1	.8	.9	.1	.0	.0	44	.2
65/66	.0	.0	.0	.0	.1	.3	.9	3.0	3.0	.3	.1	.0	166	.7
63/64	.0	.0	.0	.0	.2	.9	3.9	11.7	9.4	1.0	.1	.1	595	2.5
61/62	.2	.0	.0	.0	.2	3.8	11.8	18.3	14.8	3.3	.1	.1	1154	4.9
59/60	.1	.1	.1	.1	1.2	14.3	30.7	22.7	21.2	9.9	.9	.1	2249	9.5
57/58	.2	.2	.2	.3	4.1	28.1	26.5	23.6	23.4	20.0	3.0	.3	2887	12.1
55/56	.4	.5	.2	1.3	14.2	28.4	18.3	12.6	17.4	27.0	12.5	2.4	2918	12.3
53/54	2.1	1.4	1.8	4.4	30.1	17.1	3.1	4.1	7.4	21.1	24.1	8.2	2577	10.8
51/52	10.0	11.0	9.6	15.9	27.8	4.9	1.7	2.3	1.8	12.2	33.7	18.4	2834	11.9
49/50	23.8	26.1	34.1	48.9	15.3	1.7	.8	.3	.4	4.6	20.8	27.6	3880	16.3
47/48	27.9	33.4	24.1	19.7	5.6	.3	.1	.0	.2	.3	3.4	19.7	2416	10.2
45/46	25.3	20.0	22.7	8.1	1.1	.1	.0	.0	.0	.1	.9	10.9	1588	6.7
43/44	8.4	4.1	4.0	1.0	.2	.0	.0	.0	.0	.0	.1	1.6	348	1.5
41/42	1.3	1.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	61	.2
39/40	.2	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1
37/38	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0
35/36	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1849	1752	1857	1778	1812	2490	2282	2294	1984	2060	2145	1459	23762	100.0
MEAN	47.6	48.0	48.0	49.3	52.5	56.3	58.1	59.1	58.6	55.3	52.1	49.5	52.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1016	1016	1016	1013	1016	1016	1017	1016	1016	1874
FEB	1017	1017	1017	1016	1017	1017	1017	1015	1017	1593
MAR	1017	1017	1017	1015	1016	1016	1016	1016	1017	1716
APR	1020	1019	1019	1015	1017	1019	1019	1017	1019	1684
MAY	1021	1019	1020	1017	1020	1020	1021	1018	1020	1648
JUN	1020	1018	1019	1017	1019	1018	1019	1017	1019	2359
JUL	1020	1019	1019	1019	1019	1020	1019	1021	1019	2309
AUG	1018	1018	1018	1018	1017	1018	1018	1018	1018	2194
SEP	1017	1018	1017	1018	1017	1018	1017	1018	1017	1806
OCT	1018	1018	1018	1017	1018	1018	1018	1016	1018	1798
NOV	1016	1018	1015	1019	1017	1018	1016	1016	1016	1905
DEC	1015	1016	1015	1015	1014	1016	1015	1015	1015	1338
ANN	1018	1018	1018	1017	1017	1018	1018	1017	1018	22226
OBS	4246	1789	3922	619	4220	2025	4256	1139		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	983	991	998	1009	1017	1024	1032	1036	1040
FEB	982	993	1001	1012	1017	1023	1031	1034	1037
MAR	985	992	1001	1011	1017	1023	1030	1034	1039
APR	990	998	1005	1013	1019	1024	1031	1036	1040
MAY	999	1005	1010	1016	1020	1024	1030	1033	1040
JUN	994	1006	1011	1016	1019	1022	1027	1030	1038
JUL	997	1001	1011	1017	1020	1022	1026	1029	1037
AUG	991	997	1009	1015	1018	1021	1025	1028	1038
SEP	990	996	1005	1014	1018	1021	1026	1030	1035
OCT	991	995	1003	1014	1018	1023	1029	1033	1038
NOV	988	993	1000	1010	1017	1023	1030	1034	1040
DEC	984	988	996	1008	1016	1023	1031	1036	1044

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

JANUARY

AREA 0041 VANCOUVER IS. SW
48.4N 123.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.6	.5	5.5	.0	3.0	.5	.0	14.5	3.4	.0	2.3	.0	.0	.0	79.8
NE	6.0	2.0	3.7	.0	5.0	.0	.0	19.2	3.0	.0	3.5	.0	1.5	1.0	75.8
E	11.4	1.8	5.2	.0	4.6	.3	.2	22.2	2.3	.5	3.4	.0	.6	.0	71.4
SE	23.2	2.8	13.0	.0	2.7	.0	.7	39.1	2.8	.8	7.9	.3	.3	.0	49.4
S	27.5	3.7	14.9	.0	1.4	.3	.0	45.2	2.6	.9	12.0	.5	.5	.5	38.8
SW	18.7	4.1	9.7	.0	1.8	.0	.3	33.8	4.3	.0	5.7	.7	.9	.7	53.9
W	10.5	3.5	7.9	.0	1.8	.0	.3	23.4	3.4	.0	4.9	.0	.8	.5	67.0
NW	4.2	2.1	3.9	.0	3.2	.2	.0	13.4	2.5	.4	2.9	.0	.1	.0	80.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4	.0	3.1	.0	3.1	.0	.0	13.6	.0	.0	6.3	.0	6.3	.0	71.9
TOT PCT	15.6	2.8	9.0	.0	2.6	.1	.2	28.8	3.0	.4	6.1	.2	.8	.3	60.9
TOT OBS:	2230														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	15.2	3.3	7.5	.0	3.0	.2	.2	27.5	2.5	.2	9.3	.5	1.2	.0	58.9
0600	16.0	2.0	12.0	.0	1.8	.0	.0	28.9	2.2	.4	5.0	.2	.4	.2	63.0
1200	17.5	3.6	8.6	.0	1.6	.1	.6	31.1	3.9	.6	5.0	.1	.3	.4	59.0
1800	12.0	1.8	8.6	.0	4.1	.2	.2	26.3	3.0	.4	4.8	.0	.5	.5	64.6
TOT PCT	15.3	2.8	9.0	.0	2.6	.1	.3	28.6	3.0	.4	6.1	.2	.6	.3	61.1
TOT OBS:	2301														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.6	2.1	.5	.1	.0		4.8	12.9		5.4	2.7	5.3	4.8	6.2	2.9	4.9	5.1
NE	.1	2.0	2.0	.5	.1	.0		4.7	12.9		5.1	4.8	3.9	4.2	3.7	5.2	3.7	7.3
E	.6	4.6	5.5	2.2	.5	*		13.5	14.9		10.5	17.9	12.6	19.8	13.0	15.2	10.1	16.5
SE	.5	4.1	7.2	4.0	1.3	.4		17.5	18.7		17.7	19.7	16.3	22.6	15.4	17.2	15.7	19.3
S	.2	3.8	7.4	3.9	1.6	.1		17.1	19.0		16.2	16.0	16.0	15.0	17.4	21.1	17.7	16.1
SW	.7	3.6	5.3	2.9	.6	*		13.2	16.1		14.0	11.0	13.7	7.9	12.7	15.4	12.2	15.8
W	.4	3.8	6.4	4.2	1.0	.1		15.9	18.1		17.1	16.0	16.9	13.7	15.7	13.2	20.7	11.5
NW	.3	2.5	5.1	3.2	.9	.0		11.9	18.2		11.0	11.5	14.4	14.9	13.5	9.8	13.2	7.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		2.9	.4	1.0	1.2	2.5	.0	2.0	.7
TOT OBS	116	630	993	919	146	17	2421		16.9		381	231	313	168	397	306	345	280
TOT PCT	4.8	26.0	41.0	21.4	6.0	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.0	2.3	1.2	.1	*		4.8	12.9	4.4	5.1	4.8	5.0	5.3
NE	1.1	2.3	1.0	.3	.0		4.7	12.9	5.0	4.0	4.3	5.3	5.3
E	2.5	5.7	3.8	1.3	.1		13.5	14.9	13.3	13.7	13.9	13.0	13.0
SE	1.8	6.4	6.1	2.4	.8		17.5	18.7	18.5	18.5	16.1	17.3	17.3
S	1.2	6.6	6.0	2.7	.5		17.1	19.0	16.1	15.6	19.0	17.0	17.0
SW	2.2	5.7	3.7	1.3	.1		13.2	16.1	12.9	11.7	13.9	13.8	13.8
W	1.7	5.9	3.6	2.6	.1		15.9	18.1	16.7	15.7	14.6	16.6	16.6
NW	1.2	4.4	4.3	2.0	*		11.9	18.2	11.2	14.6	11.9	10.7	10.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	2.0	1.0	1.4	1.4	1.4
TOT OBS	344	953	768	314	42	2421		16.9	612	481	703	625	625
TOT PCT	14.2	39.4	31.7	13.0	1.7		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

JANUARY

AREA 0041 VANCOUVER IS. SW
48.4N 125.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.0	3.8	25.7	40.4	22.1	5.6	.7	16.7	100.0	612
0600	1.0	2.5	24.5	41.6	23.1	6.4	.8	17.5	100.0	491
1200	1.4	3.1	24.6	42.2	21.3	6.7	.6	17.1	100.0	703
1800	1.4	3.7	29.1	39.8	19.7	5.4	.8	16.5	100.0	625
TOT	36	80	630	993	519	146	17	16.9		2421
PCT	1.5	3.3	26.0	41.0	21.4	6.0	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.4	1.3	1.8		5.5
NE	1.3	.6	1.2	1.3		4.8
E	2.3	1.2	3.0	5.8		5.7
SE	.7	1.0	3.7	11.7		7.0
S	.4	.3	3.2	14.3		7.5
SW	.5	1.2	2.6	8.6		6.8
W	1.3	1.9	6.5	8.0		6.4
NW	2.7	2.0	4.6	4.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	.2	.2	.3	.6		5.7
TOT OBS	130	110	330	674	1244	6.4
TOT PCT	10.5	8.8	26.5	54.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.1	.1	.4	1.3	.7	.2	.0	.0	.0	1.6	
NE	.0	.0	.1	.3	.6	.8	.3	.1	.1	.0	2.2	
E	.3	.0	.3	.5	2.1	2.7	1.3	.3	.1	.2	4.6	
SE	1.5	.4	.7	2.2	3.7	3.5	1.7	.6	.1	.0	2.7	
S	3.3	.3	1.3	1.9	4.1	3.4	1.1	.9	.2	.0	1.6	
SW	.9	.4	.5	.9	2.6	2.0	.9	.5	.0	.0	2.1	
W	1.2	.2	1.9	4.3	2.5	1.6	.8	.1	.1	.4	9.9	
NW	.1	.0	.4	1.3	3.0	1.7	.7	.2	.0	.0	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.1	.0	.1	.2	.4	.2	.0	.0	.0	.4	
TOT OBS	95	18	45	117	271	221	101	42	7	3	324	1244
TOT PCT	7.6	1.4	3.6	9.4	21.8	17.8	8.1	3.4	.6	.2	26.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	3.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3
= OR >3500	8.8	12.4	12.5	12.6	12.6	12.6	12.6	12.6
= OR >2000	19.3	28.5	30.3	30.9	31.0	31.0	31.0	31.1
= OR >1000	28.3	45.5	50.4	52.1	52.5	52.6	52.6	52.8
= OR >600	31.5	52.5	58.9	61.0	61.6	61.7	61.7	61.9
= OR >300	32.6	54.5	61.6	64.3	65.0	65.2	65.3	65.4
= OR >150	32.9	55.4	62.9	65.7	66.4	66.6	66.7	66.8
= OR >0	32.9	56.2	65.2	69.6	72.5	73.4	74.0	74.3
TOTAL	421	720	835	891	929	940	948	952

TOTAL NUMBER OF OBS: 1261

PCT FREQ NM <5/8: 25.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.6	3.5	5.7	5.7	5.9	7.9	9.3	9.6	41.4	6.5	1360

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

JANUARY

AREA 0041 VANCOUVER IS. SW
48.4N 123.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.2	.4	.1	.0	.1	.0	.0	1.1	
	NO PCP	.0	.1	.0	.3	.3	.1	.1	.0	.0	.0	1.1	
	TOT %	.1	.1	.1	.5	.7	.2	.2	.1	.0	.0	2.2	
1/2<1	PCP	.1	.1	.2	.6	.6	.2	.1	.1	.0	.0	2.6	
	NO PCP	.0	.0	.1	.2	.8	.1	.2	.1	.0	.0	1.5	
	TOT %	.1	.1	.3	.8	1.3	.3	.3	.1	.0	.0	3.5	
1<2	PCP	.0	.0	.4	1.0	1.2	.9	.2	.1	.0	.0	3.9	
	NO PCP	.0	.0	.0	.2	.3	.3	.1	.0	.0	.1	1.0	
	TOT %	.0	.0	.5	1.1	1.6	1.2	.3	.1	.0	.1	4.9	
2<5	PCP	.1	.1	.7	2.0	1.6	.8	.7	.3	.0	.1	6.4	
	NO PCP	.1	.1	.3	.6	.9	.5	.6	.6	.0	.0	3.8	
	TOT %	.2	.2	1.1	2.6	2.5	1.3	1.4	.8	.0	.1	10.2	
5<10	PCP	.4	.2	1.0	2.4	3.1	1.7	1.7	.5	.0	.0	11.1	
	NO PCP	1.3	1.1	2.9	3.3	3.8	3.4	3.5	3.3	.0	.1	22.6	
	TOT %	1.7	1.3	3.9	5.6	6.9	5.1	5.2	3.8	.0	.1	33.7	
10+	PCP	.1	.2	.5	.5	.7	.8	1.0	.7	.0	.0	4.6	
	NO PCP	2.8	2.6	6.8	5.7	3.2	4.3	7.9	6.8	.0	.9	41.0	
	TOT %	2.9	2.8	7.2	6.2	4.0	5.1	8.9	7.5	.0	.9	45.6	
TOT OBS													2232
TOT PCT		4.9	4.5	13.1	17.0	17.0	13.3	16.3	12.5	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.2	.2	.1	.1	.0	.0	.0	.7	
	11-21	.0	.0	.0	.2	.4	.1	.0	.0	.0	.0	.8	
	22+	.0	.0	.1	.1	.7	.1	.0	.0	.0	.0	.6	
	TOT %	.1	.1	.2	.6	.7	.2	.2	.1	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.0	.2	.1	.2	.1	.0	.0	.0	.6	
	11-21	.1	.1	.1	.4	.7	.2	.1	.1	.0	.0	1.7	
	22+	.0	.0	.1	.2	.5	.1	.1	.0	.0	.0	1.1	
	TOT %	.1	.1	.3	.8	1.3	.4	.3	.1	.0	.0	3.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.1	.2	.3	.4	.1	.0	.0	.0	1.2	
	11-21	.0	.0	.1	.6	.6	.4	.1	.1	.0	.0	2.0	
	22+	.0	.0	.3	.4	.7	.3	.1	.0	.0	.0	2.0	
	TOT %	.1	.0	.5	1.2	1.6	1.2	.3	.2	.0	.1	5.3	
2<5	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.4	
	4-10	.0	.1	.3	.4	.3	.4	.7	.2	.0	.0	2.4	
	11-21	.1	.2	.5	1.0	1.4	.5	.9	.4	.0	.0	4.6	
	22+	.0	.0	.2	1.2	.9	.3	.3	.2	.0	.0	3.2	
	TOT %	.2	.3	1.1	2.6	2.6	1.4	1.9	.9	.0	.1	10.6	
5<10	0-3	.2	.1	.3	.1	.1	.4	.1	.1	.0	.1	1.4	
	4-10	.7	.6	1.1	1.0	1.6	1.3	1.0	.7	.0	.0	8.0	
	11-21	.7	.4	1.6	2.2	2.5	1.8	2.0	1.6	.0	.0	12.9	
	22+	.1	.2	.9	2.3	2.6	1.4	2.0	1.2	.0	.0	10.8	
	TOT %	1.6	1.3	3.9	5.7	6.8	5.0	5.1	3.7	.0	.1	33.1	
10+	0-3	.3	.1	.3	.2	.1	.2	.2	.2	.0	1.0	2.5	
	4-10	.9	1.1	2.9	2.1	1.2	1.3	2.1	1.6	.0	.0	13.1	
	11-21	1.2	1.4	3.0	2.6	1.9	2.5	3.6	3.0	.0	.0	19.2	
	22+	.5	.3	1.0	1.2	.8	1.0	2.9	2.6	.0	.0	10.3	
	TOT %	2.9	2.9	7.2	6.2	4.0	5.0	8.7	7.3	.0	1.0	45.1	
TOT OBS													2302
TOT PCT		4.9	4.7	13.2	17.0	17.0	13.2	16.2	12.2	.0	1.5	100.0	

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

JANUARY

AREA 0041 VANCOUVER IS. SW
48.4N 123.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY MGT	TOTAL OBS
00003	8.1	.8	3.5	11.1	21.4	17.9	10.0	4.3	.3	.3	77.8	22.2	369
06009	5.8	.4	1.4	6.1	24.1	18.7	7.9	2.2	.4	.4	67.3	32.7	278
12015	8.8	1.1	2.6	8.8	17.9	20.8	7.7	4.6	.6	.3	73.2	26.8	351
18021	6.5	3.3	6.2	9.4	23.8	15.0	7.5	2.3	1.0	.0	74.9	25.1	307
TOT	97	18	45	118	282	237	109	45	7	3	961	344	1305
PCT	7.4	1.4	3.4	9.0	21.6	18.2	8.4	3.4	.5	.2	73.6	26.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	3.0	4.6	6.1	12.2	30.5	43.7	609
06009	1.3	2.9	4.4	9.8	35.1	46.6	479
12015	2.0	2.6	6.1	7.2	37.5	44.6	704
18021	2.6	4.0	4.0	12.9	29.5	47.1	580
TOT	53	83	124	247	789	1076	2372
PCT	2.2	3.5	5.2	10.4	33.3	45.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	< 150 < 50 YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	8.3	13.8	34.7	43.8	21.5	363
06009	5.8	8.0	21.5	46.7	31.8	274
12015	9.0	13.0	26.7	47.8	25.5	345
18021	7.0	18.1	33.1	43.8	23.1	299
TOT	98	171	376	583	322	1281
PCT	7.7	13.3	29.4	45.5	25.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.1	.0	.0	.0	.3	.0	.0	.0	8	.4
55/59	.0	.0	.1	.0	.0	.1	.1	.3	8	.5
50/54	.0	.0	.1	.0	.4	.8	2.5	3.5	117	7.3
45/49	.0	.0	.2	.4	1.3	5.0	9.8	19.5	579	36.2
40/44	.0	.0	.1	.7	3.2	3.8	8.3	12.6	459	28.7
35/39	.0	.3	.3	.8	1.6	1.6	6.3	9.2	319	20.0
30/34	.0	.0	.3	.2	.3	.6	1.1	2.4	77	4.8
25/29	.0	.0	.0	.1	.1	.2	.6	.3	20	1.3
20/24	.0	.0	.0	.1	.1	.1	.4	.1	13	.8
TOTAL	1	4	16	34	116	195	467	763	1598	100.0
PCT	.1	.3	1.0	2.3	7.3	12.2	29.2	47.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0
55/59	.1	.0	.0	.0	.1	.3	.0	.0	.0	.0
50/54	.3	.1	.7	1.4	2.2	1.7	.4	.4	.0	.1
45/49	1.2	.7	2.5	7.3	9.0	5.8	6.1	3.1	.0	.6
40/44	1.1	1.2	4.4	4.3	3.5	4.1	5.3	4.7	.0	.2
35/39	1.0	1.5	3.8	2.8	2.5	1.7	4.2	2.4	.0	.1
30/34	.5	.8	1.2	.7	.7	.3	.4	.4	.0	.0
25/29	.1	.2	.4	.2	.2	.1	.0	.1	.0	.0
20/24	.2	.1	.1	.4	.0	.0	.0	.1	.0	.0
TOTAL	4.4	4.4	13.1	17.0	18.2	14.2	16.4	11.2	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	54	51	45	34	27	21	43.3	632
06009	62	51	50	45	34	27	20	43.2	492
12015	54	53	50	44	33	27	21	42.6	725
18021	62	55	51	45	34	26	20	43.7	658
TOT	62	54	50	44	34	26	20	43.2	2487

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	6.8	12.4	27.6	48.8	86	453
06009	.3	3.3	6.3	12.6	31.5	44.0	85	302
12015	.7	2.2	6.6	10.8	28.5	51.9	87	499
18021	.0	4.1	7.2	12.7	28.7	47.3	86	387
TOT	1	57	117	197	473	796	86	1641

JANUARY

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

TABLE 17

AREA 0041 VANCOUVER IS. SW
48.4N 123.9WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	43 46	49 52	53 56	57 60	61 64	TOT	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	7	.1	.3
6	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	6	.0	.3
5	.0	.0	.0	.0	.0	.0	.2	.4	.2	.0	.0	14	.1	.6
4	.0	.0	.0	.0	.0	.0	.7	1.0	.4	.0	.0	40	.3	1.7
3	.0	.0	.0	.0	.0	.3	.8	1.1	.0	.0	.0	41	.2	1.9
2	.0	.0	.0	.0	.1	.2	2.1	1.9	.0	.0	.0	82	.2	3.9
1	.0	.0	.0	.0	.0	.2	3.8	1.9	.1	.0	.0	117	.5	5.4
0	.0	.0	.0	.0	.1	.5	8.9	1.6	.0	.0	.0	219	.8	10.2
-1	.0	.0	.0	.1	.1	1.8	6.9	.9	.0	.0	.0	193	.7	9.0
-2	.0	.0	.0	.1	.5	2.6	6.2	.2	.1	.0	.0	190	.6	9.0
-3	.0	.0	.0	.0	.2	3.3	3.5	.1	.0	.0	.0	140	.3	6.7
-4	.0	.0	.0	.1	.7	3.8	1.8	.1	.0	.0	.0	127	.3	6.1
-5	.0	.0	.1	.1	1.4	3.2	.9	.2	.0	.0	.0	115	.3	5.5
-6	.0	.1	.0	.0	3.1	2.8	.4	.0	.0	.0	.0	125	.4	5.9
-7/-8	.0	.0	.1	.7	5.9	2.5	.3	.0	.0	.0	.0	188	.5	9.0
-9/-10	.0	.0	.3	1.9	5.5	.5	.0	.0	.0	.0	.0	162	.7	7.5
-11/-13	.0	.1	.6	4.8	1.6	.1	.0	.0	.0	.0	.0	142	.4	6.7
-14/-16	.1	.1	1.1	1.3	.1	.0	.0	.0	.0	.0	.0	31	.1	2.5
-17/-19	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	.1	.5
-20/-22	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.4
-23/-25	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	7	16	47	177	378	428	724	187	19	1	2	1986	127	1859
PCT	.4	.8	2.4	8.9	19.0	21.6	36.5	9.4	1.0	.1	.1	100.0	6.4	93.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.3	.0	.0	.0	.0	.6	.0	1.0	.2	.0	.0	.0	1.2
1-2	.1	.5	.2	.0	.0	.0	.8	.0	.1	.4	.0	.0	.0	.6
3-4	.1	.0	.6	.1	.0	.0	.8	.0	.3	.2	.0	.0	.0	.4
5-6	.0	.2	.5	.3	.0	.0	1.0	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.0	1.4	.4	.1	.0	3.5	.0	1.6	1.0	.3	.0	.0	3.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	2.7	1.1	.0	.0	.0	3.9	.5	2.0	.3	.0	.0	.0	2.8
1-2	.0	.5	1.3	.0	.0	.0	1.8	.0	.7	2.2	.0	.0	.0	2.8
3-4	.0	.6	.6	.1	.0	.0	1.3	.0	.4	1.8	.0	.0	.0	2.7
5-6	.0	.0	.3	.1	.0	.0	.4	.0	.4	1.1	.0	.0	.0	2.9
7	.0	.0	.4	.1	.0	.0	.5	.0	.1	.9	.5	.2	.0	1.8
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.6	.0	.0	.7
10-11	.0	.0	.2	.1	.3	.0	.6	.0	.0	.2	.3	.1	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.8	4.0	.5	.5	.0	8.9	.5	3.6	6.6	3.2	.8	.0	14.7

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0041 VANCOUVER IS. SW
48.4N 125.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.1	.0	.0	.0		1.2	.1	.6	.0	.0	.0	.0		.8
1-2	.0	.6	1.5	.0	.0	.0		2.1	.0	1.0	.9	.0	.0	.0		2.0
3-4	.0	.9	2.6	.7	.0	.0		4.3	.0	.6	2.2	.4	.0	.0		3.1
5-6	.1	.6	2.2	2.0	.6	.0		5.4	.1	.5	1.6	1.4	.6	.0		4.1
7	.0	.1	.7	.5	.2	.0		1.5	.0	.1	.2	.8	.0	.0		1.1
8-9	.0	.0	.1	.8	.4	.1		1.4	.0	.1	.2	.8	.3	.1		1.4
10-11	.0	.1	.1	.1	.1	.0		.4	.0	.1	.1	.3	.2	.0		.6
12	.0	.0	.1	.1	.1	.0		.4	.0	.1	.0	.2	.0	.0		.3
13-16	.0	.0	.2	.1	.5	.0		.8	.0	.0	.1	.1	.0	.0		.1
17-19	.0	.0	.0	.4	.2	.0		.6	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	3.4	7.7	4.6	2.5	.1		16.5	.2	3.1	5.2	4.0	1.0	.1		13.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.6	.1	.0	.0	.0		.8	.1	.2	.3	.0	.0	.0		.6	
1-2	.0	1.3	.9	.0	.0	.0		2.3	.0	.4	.3	.0	.0	.0		.7	
3-4	.0	.8	3.1	1.1	.0	.0		5.0	.0	.6	1.1	.7	.0	.0		2.5	
5-6	.0	.8	1.7	1.6	1.2	.0		5.0	.0	.2	1.8	1.4	.1	.0		3.4	
7	.0	.3	1.7	1.4	.1	.0		3.7	.0	.2	.6	1.4	.1	.0		2.3	
8-9	.0	.0	.1	1.3	.2	.0		1.6	.0	.1	.8	.6	.3	.0		1.9	
10-11	.0	.2	.2	.5	.2	.0		1.1	.0	.0	.3	1.0	.2	.0		1.5	
12	.0	.0	.2	.6	.0	.0		.8	.0	.0	.1	.2	.3	.0		.5	
13-16	.0	.0	.3	.4	.1	.0		.8	.0	.0	.3	.1	.4	.0		.8	
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.1	.1	.1	.0	.0		.4	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	4.1	8.3	7.0	1.8	.0		21.3	.1	1.8	3.7	5.6	1.3	.0		14.6	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	8.5	2.1	.0	.0	.0	13.9	
1-2	.1	5.3	7.7	.0	.0	.0	13.1	
3-4	.1	4.1	12.2	3.6	.0	.0	20.1	
5-6	.1	2.7	9.4	7.7	2.8	.0	22.8	
7	.0	.9	4.5	4.9	.6	.0	11.0	
8-9	.0	.4	1.4	4.3	1.3	.1	7.5	
10-11	.0	.4	1.0	2.4	1.2	.0	5.0	
12	.0	.1	.6	1.2	.6	.0	2.1	
13-16	.0	.0	1.0	.6	1.0	.0	2.7	
17-19	.0	.1	.1	.8	.4	.0	1.4	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	22.6	39.9	25.5	8.1	.1	100.0	776

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.8	8.7	9.3	3.3	2.3	1.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	411	5
6-7	.0	3.9	6.2	8.1	6.0	3.7	2.3	1.3	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	426	6
8-9	.0	1.0	1.9	3.5	4.5	3.4	2.0	1.2	1.1	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	254	8
10-11	.0	.3	.2	.5	1.1	1.0	1.1	.5	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	77	9
12-13	.0	.0	.4	.2	.0	.2	.9	.2	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	35	10
13-14	.0	.0	.0	.0	.2	.1	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	11
15-16	.0	.3	.9	.7	.3	.3	.2	.6	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	63	6
TOTAL	2.7	13.2	23.5	28.7	19.8	14.2	10.3	6.0	6.1	2.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	1282	6
PCT	2.1	10.3	18.3	22.4	15.4	11.1	8.0	4.7	4.8	2.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1858-1973

FEBRUARY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	1.8	1.8	2.0	.0	.7	.0	.4	6.7	.7	.0	6.4	.0	.7	.0	85.4
NE	2.2	1.7	2.2	.0	1.7	.0	.3	7.8	.2	.0	4.4	.0	.7	.0	87.0
E	9.3	3.5	4.3	.0	1.0	.0	.3	17.9	1.9	.0	4.4	.0	.6	.0	75.2
SE	15.5	5.8	7.0	.0	.4	.0	.6	28.8	3.4	.3	7.2	.1	.8	.0	59.7
S	20.1	6.5	10.1	.0	.3	.0	.2	36.5	3.4	.0	9.6	.9	.5	.0	49.2
SW	16.9	4.4	10.8	.0	.5	.0	.5	32.6	3.1	.0	6.5	.5	.0	.5	57.0
W	5.8	3.4	5.3	.0	.0	.0	.4	14.9	3.5	.0	5.8	.0	.0	.8	75.0
NW	3.1	1.9	2.1	.0	.5	.0	.7	7.8	3.5	.0	1.4	.0	.0	.4	86.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.8	.0	.0	.0	.0	3.8	.0	.0	7.5	1.9	.0	.0	86.8
TOT PCT	10.5	4.0	6.0	.0	.6	.0	.4	20.9	2.7	.1	6.0	.3	.4	.2	69.5
TOT OBS: 1996															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
0000	11.2	3.6	5.0	.0	.7	.0	.7	20.4	2.9	.0	5.7	.3	.5	.0	70.1
0600	10.3	4.9	9.2	.0	1.1	.0	.4	25.5	1.8	.0	4.7	.0	.4	.2	67.3
1200	13.6	4.1	4.3	.0	.2	.0	.2	22.4	2.7	.2	5.4	.0	.4	.4	68.8
1800	8.4	2.8	6.4	.0	.6	.0	.2	18.0	2.4	.0	8.3	.6	.4	.2	70.2
TOT PCT	11.0	3.8	6.0	.0	.6	.0	.4	21.4	2.5	*	6.0	.2	.4	.2	69.2
TOT OBS: 2116															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.6	2.8	2.3	1.1	.1	.0		6.9	13.2	7.9	4.2	8.3	7.9	7.3	7.8	6.8	4.1	
NE	.7	4.3	1.8	.5	*	.0		7.3	10.3	3.4	12.9	5.6	7.7	6.9	10.1	6.9	8.9	
E	.9	6.1	5.4	1.7	.6	*		14.8	13.6	10.9	22.0	10.8	13.1	14.8	15.4	13.5	21.3	
SE	1.3	5.1	7.2	3.4	.8	.2		18.1	16.2	15.8	17.0	16.2	22.2	14.9	21.4	17.3	23.8	
S	.5	4.4	6.2	2.9	1.1	.1		15.1	16.9	18.4	10.7	15.7	10.7	14.8	15.5	17.9	12.6	
SW	.7	3.8	4.0	1.9	.4	.1		10.8	14.9	10.4	10.7	9.6	13.5	13.6	11.0	8.8	9.7	
W	.6	4.0	3.2	3.4	.3	.1		13.8	16.3	13.9	14.2	16.2	12.2	14.7	7.6	15.4	12.0	
NW	.6	2.8	4.2	2.4	.5	*		10.6	16.8	16.1	7.3	13.2	9.7	8.8	8.0	9.9	6.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9							2.9	.0	3.2	1.0	2.5	3.0	4.2	3.2	3.5	1.2	
TOT OBS	186	712	776	372	81	12	2139		14.8	373	203	280	168	334	216	311	234	
TOT PCT	8.7	33.3	36.3	17.4	3.8	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.8	3.1	1.5	.4	*	6.9	13.2	6.6	8.1	7.5	5.6		
NE	2.7	3.3	1.0	.3	.0	7.3	10.3	6.7	6.4	8.1	7.8		
E	3.3	7.4	2.7	1.0	.4	14.8	13.6	14.8	11.7	15.0	17.0		
SE	3.0	7.2	5.3	2.2	.4	18.1	16.2	16.2	18.4	17.5	20.2		
S	1.7	6.6	4.6	1.9	.3	15.1	16.9	13.7	13.8	15.1	15.5		
SW	1.9	4.9	3.1	.8	.1	10.8	14.9	10.5	11.0	12.6	9.2		
W	2.5	4.8	4.7	1.6	.2	13.6	16.3	14.0	14.7	12.0	13.9		
NW	1.4	4.1	3.6	1.4	.1	10.6	16.8	13.0	13.1	8.5	8.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.9					2.9	.0	2.4	2.7	3.8	2.5		
TOT OBS	453	883	567	205	31	2139		576	448	550	565		
TOT PCT	21.2	41.3	26.5	9.6	1.4		100.0	100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1858-1973AREA 0041 VANCOUVER IS. SW
48.3N 120.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.4	7.1	32.3	35.8	17.2	4.7	.5	15.0	100.0	576
06009	2.7	4.0	35.3	33.9	19.0	4.5	.7	15.1	100.0	448
12015	3.8	6.2	34.0	36.5	16.2	2.5	.7	14.1	100.0	550
18021	2.5	5.7	32.0	38.4	17.5	3.5	.4	14.9	100.0	565
TOT	61	125	712	776	372	81	12	14.8		2139
PCT	2.9	5.8	33.3	36.3	17.4	3.8	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & C OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	1.1	1.5	1.7		3.9
NE	2.7	.9	1.3	1.2		3.7
E	3.5	1.6	2.6	4.1		4.8
SE	2.0	1.0	3.4	9.1		6.3
S	1.8	1.4	3.5	11.6		6.6
SW	1.1	.8	2.6	6.4		6.6
W	2.3	1.8	6.0	5.4		5.7
NW	2.2	2.4	4.2	2.3		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.7	1.0		4.1
TOT OBS	210	120	273	455	1058	5.6
TOT PCT	19.8	11.3	25.8	43.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & C OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	2.8	1.1	1.5	1.7		3.9	.3	.1	.1	.4	.8	.8	.1	.0	.0	.1	4.6	
NE	2.7	.9	1.3	1.2		3.7	.0	.0	.0	.8	1.1	.4	.3	.0	.0	.0	4.2	
E	3.5	1.6	2.6	4.1		4.8	.2	.0	.2	.8	1.3	1.1	.5	.2	.5	.1	6.8	
SE	2.0	1.0	3.4	9.1		6.3	1.1	.4	1.2	1.2	3.5	2.1	.4	.2	.0	.3	5.1	
S	1.8	1.4	3.5	11.6		6.6	1.2	.2	1.0	2.4	3.9	3.9	.9	.2	.2	.1	4.4	
SW	1.1	.8	2.6	6.4		6.6	.9	.2	.6	1.3	2.2	2.2	.7	.0	.0	.0	2.7	
W	2.3	1.8	6.0	5.4		5.7	.5	.1	.3	1.3	3.2	3.3	.9	.1	.2	.0	5.9	
NW	2.2	2.4	4.2	2.3		5.0	.0	.0	.2	.9	2.1	1.9	.2	.1	.3	.0	5.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.3	.7	1.0		4.1	.0	.0	.0	.2	.9	.0	.0	.0	.1	.0	1.9	
TOT OBS	210	120	273	455	1058	5.6	44	10	37	90	199	167	66	9	13	7	434	1058
TOT PCT	19.8	11.3	25.8	43.0	100.0		4.2	.9	3.5	8.5	18.8	15.8	4.3	.9	1.4	.7	41.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >4500	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1
>OR >3000	2.6	3.2	3.3	3.3	3.3	3.3	3.3	3.3
>OR >2500	7.1	9.0	9.5	9.6	9.6	9.6	9.6	9.6
>OR >2000	15.5	23.0	24.9	25.2	25.2	25.2	25.2	25.3
>OR >1000	23.5	38.5	42.6	43.3	43.3	43.4	43.4	43.5
>OR >600	26.6	44.4	50.0	50.7	51.0	51.3	51.3	51.4
>OR >300	27.1	46.0	52.6	53.6	54.2	54.5	54.5	54.6
>OR >150	27.2	46.5	53.3	54.4	55.0	55.4	55.4	55.5
>OR >0	27.4	47.1	54.7	56.3	57.6	59.2	59.5	59.6
TOTAL	312	536	623	641	656	674	678	679

TOTAL NUMBER OF OBS: 1139

PCT FREQ NM <5/8: 40.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	OBSCD	TOTAL OBS
19.3	5.3	7.1	8.4	5.7	6.3	7.3	9.6	39.6	3.5	1195	

FEBRUARY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1858-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.3	.1	.0	.0	.0	.5	
	NO PCP	.2	.2	.2	.3	.6	.4	.2	.1	.0	.1	2.4	
	TOT %	.2	.2	.2	.4	.6	.6	.3	.1	.0	.1	2.9	
1/2<1	PCP	.1	.1	.5	.4	.3	.2	.1	.0	.0	.0	1.6	
	NO PCP	.1	.1	.4	.4	.3	.2	.0	.0	.0	.0	1.5	
	TOT %	.2	.1	.9	.7	.6	.3	.1	.0	.0	.0	3.0	
1<2	PCP	.0	.1	.1	.6	.5	.3	.2	.1	.0	.0	1.7	
	NO PCP	.1	.0	.0	.1	.2	.1	.2	.0	.0	.1	.7	
	TOT %	.1	.1	.1	.7	.6	.3	.4	.1	.0	.1	2.4	
2<5	PCP	.2	.1	.3	1.2	1.5	.6	.2	.0	.0	.0	4.1	
	NO PCP	.0	.1	.2	.7	.7	.5	.6	.2	.0	.1	3.0	
	TOT %	.2	.3	.6	1.9	2.1	1.1	.7	.2	.0	.1	7.1	
5<10	PCP	.2	.3	1.4	2.7	3.0	1.9	1.1	.6	.0	.1	11.3	
	NO PCP	1.0	1.9	3.4	4.3	2.8	2.7	3.3	2.0	.0	.7	22.1	
	TOT %	1.2	2.2	4.8	7.1	5.8	4.6	4.4	2.6	.0	.8	33.4	
10+	PCP	.1	.0	.3	.2	.4	.4	.4	.2	.0	.0	1.9	
	NO PCP	5.0	4.6	7.7	6.9	5.2	3.7	7.3	7.5	.0	1.6	49.4	
	TOT %	5.1	4.6	8.0	7.0	5.5	4.1	7.7	7.7	.0	1.6	51.2	
TOT OBS													1995
TOT PCT		6.9	7.4	14.5	14.0	15.3	11.0	13.5	10.6	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.0	.1	.2	.2	.2	.0	.0	.0	1.0	
	11-21	.0	.0	.1	.3	.2	.2	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.2	.2	.2	.1	.0	.0	.0	.8	
	TOT %	.2	.2	.2	.6	.6	.6	.4	.1	.0	.1	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.6	
	11-21	.1	.1	.3	.3	.3	.3	.0	.0	.0	.0	1.4	
	22+	.0	.0	.3	.2	.1	.0	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.9	.7	.7	.3	.1	.0	.0	.0	3.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.0	.0	.1	.2	.1	.1	.1	.0	.0	.8	
	11-21	.0	.0	.0	.3	.2	.1	.2	.0	.0	.0	.9	
	22+	.0	.0	.0	.3	.2	.1	.1	.0	.0	.0	.7	
	TOT %	.1	.1	.1	.7	.6	.3	.4	.1	.0	.1	2.7	
2<5	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.2	.1	.4	.3	.3	.2	.1	.0	.0	1.7	
	11-21	.1	.1	.4	.4	.7	.6	.4	.2	.0	.0	2.8	
	22+	.0	.0	.2	1.0	1.1	.2	.2	.0	.0	.0	2.7	
	TOT %	.2	.3	.8	2.0	2.1	1.2	.8	.2	.0	.1	7.6	
5<10	0-3	.2	.1	.2	.4	.3	.3	.2	.2	.0	.8	2.7	
	4-10	.5	1.4	2.0	1.4	1.2	1.5	1.2	.6	.0	.0	9.8	
	11-21	.3	.6	1.7	3.0	2.7	1.6	1.6	.9	.0	.0	12.4	
	22+	.2	.0	.8	2.1	1.6	1.1	1.3	.9	.0	.0	8.0	
	TOT %	1.2	2.1	4.8	7.0	5.7	4.5	4.4	2.6	.0	.8	33.0	
10+	0-3	.2	.5	.5	.6	.1	.2	.3	.4	.0	1.6	4.7	
	4-10	1.8	2.4	3.9	2.9	2.2	1.8	2.4	1.9	.0	.0	19.4	
	11-21	1.9	1.1	2.9	2.8	2.2	1.3	2.8	3.2	.0	.0	18.2	
	22+	1.1	.5	.6	.6	.8	.7	2.1	2.1	.0	.0	8.6	
	TOT %	5.1	4.6	8.0	7.0	5.4	4.0	7.6	7.6	.0	1.6	50.9	
TOT OBS													2064
TOT PCT		6.9	7.4	14.7	17.9	15.1	10.9	13.7	10.7	.0	2.7	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1858-1973

AREA 0041 VANCOUVER IS. SW
48.5N 120.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 684	NH <5/8 ANY HGT	TOTAL OBS
00003	3.3	.3	3.3	9.4	17.6	17.6	4.9	1.5	3.0	.6	61.7	38.3	329
06009	4.2	1.5	2.7	7.6	17.2	13.0	6.9	.8	1.1	.4	55.3	44.7	262
12015	3.8	.3	1.4	6.2	16.1	15.4	8.2	1.4	1.0	.7	54.5	45.5	292
18021	5.4	1.4	5.4	8.0	21.0	15.6	4.7	1.1	.7	.7	64.1	35.9	276
TOT	48	10	37	91	208	180	71	14	18	7	684	475	1159
PCT	4.1	.9	3.2	7.9	17.9	15.5	6.1	1.2	1.6	.6	59.0	41.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	2.5	3.6	2.4	6.6	29.3	55.7	991
06009	3.7	3.0	1.7	6.5	36.0	49.0	461
12015	2.8	2.9	2.2	5.7	37.0	49.4	581
18021	3.3	2.2	4.0	11.1	29.9	49.6	552
TOT	66	64	37	163	719	1116	2185
PCT	3.0	2.9	2.6	7.5	32.9	51.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.7	7.8	21.7	41.3	37.0	322
06009	3.9	9.8	21.1	36.3	42.6	256
12015	3.8	6.6	15.9	38.8	45.3	289
18021	5.5	12.5	27.9	37.1	34.9	272
TOT	48	103	246	439	454	1139
PCT	4.2	9.0	21.6	38.5	39.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
67/64	.0	.0	.0	.0	.0	.1	.1	.0	2	.2
55/59	.0	.0	.0	.1	.2	.4	.5	.2	18	1.5
50/54	.0	.0	.2	.7	.7	1.3	4.3	2.3	115	9.4
45/49	.0	.0	.2	.7	1.6	9.2	19.7	21.6	650	53.1
40/44	.0	.2	.1	.7	2.9	7.2	8.2	10.1	360	29.4
35/39	.0	.0	.2	.3	.6	.9	1.3	2.5	72	5.9
30/34	.0	.0	.0	.1	.0	.1	.4	.2	9	.7
TOTAL	0	2	9	32	73	235	422	452	1225	100.0
PCT	.0	.2	.7	2.6	6.0	19.2	34.4	36.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
67/64	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
55/59	.0	.2	.2	.2	.4	.0	.1	.2	.0	.0
50/54	.6	.8	1.7	1.6	1.6	1.3	1.1	.3	.0	.4
45/49	2.2	3.8	7.5	8.1	10.7	7.1	7.8	4.7	.0	1.1
40/44	3.3	2.2	3.2	4.5	3.3	2.3	4.8	5.0	.0	.7
35/39	.6	.5	.8	1.1	.5	.5	.8	.8	.0	.2
30/34	.3	.0	.1	.1	.1	.0	.1	.0	.0	.0
TOTAL	7.1	7.6	13.5	15.6	16.7	11.2	14.7	11.0	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	57	52	46	39	35	33	45.6	607
06009	57	52	50	45	37	34	30	44.7	468
12015	54	52	50	45	37	34	32	44.2	597
18021	56	55	51	45	38	33	30	45.2	580
TOT	66	54	50	45	38	34	30	44.9	2252

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	6.4	22.4	32.8	35.4	84	393
06009	.0	3.5	4.3	20.5	41.1	30.6	84	258
12015	.0	3.1	7.8	13.9	37.5	37.8	85	360
18021	.0	3.5	4.8	18.7	31.0	41.9	86	310
TOT	0	43	79	249	468	484	85	1321

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1854-1973

FEBRUARY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.1	.0	.0	.1	.1	3	.0	.2
11/13	.0	.0	.0	.0	.1	.0	.1	.1	.0	4	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.1	.2	.0	5	.0	.3
7/8	.0	.0	.0	.2	.1	.3	.2	.1	.0	16	.1	.8
6	.0	.0	.0	.0	.2	.4	.2	.0	.0	15	.0	.8
5	.0	.0	.1	.0	.4	.8	.3	.0	.0	29	.2	1.4
4	.0	.0	.0	.2	1.0	1.6	.2	.1	.0	57	.2	2.9
3	.0	.0	.0	.2	1.3	1.7	.0	.0	.0	57	.3	2.8
2	.0	.0	.0	.4	4.0	2.3	.1	.0	.0	126	.5	6.3
1	.0	.0	.0	.7	4.3	1.8	.1	.0	.0	125	.7	6.2
0	.1	.1	.2	2.1	10.7	1.3	.0	.0	.0	263	1.2	13.1
-1	.0	.0	.0	2.9	6.2	.5	.0	.0	.0	175	.3	9.2
-2	.0	.0	.6	4.0	8.5	.2	.0	.0	.0	244	.9	12.4
-3	.0	.1	.2	3.7	4.0	.1	.0	.0	.0	147	.2	7.8
-4	.0	.1	.8	5.7	3.3	.1	.0	.0	.0	180	.5	9.3
-5	.0	.0	1.5	3.6	2.9	.1	.0	.0	.0	148	.2	7.9
-6	.0	.1	1.5	1.5	.4	.0	.0	.0	.0	62	.2	3.2
-7/-8	.1	.7	2.7	1.5	.2	.0	.0	.0	.0	94	.4	4.7
-9/-10	.0	.4	1.7	.3	.2	.0	.0	.0	.0	48	.1	2.5
-11/-13	.2	.9	.4	.2	.1	.0	.0	.0	.0	33	.2	1.6
-14/-16	.1	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	7	43	176	495	876	206	7	1	1	1835	112	1723
PCT	.4	2.3	9.6	27.0	47.7	11.2	1.3	.4	.1	100.0	6.1	93.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	1.7	<1	.5	2.4	.4	.0	.0	.0	3.3
1-2	.0	.5	.7	.0	.0	.0	1.2	1-2	.0	.7	.5	.0	.0	.0	1.2
3-4	.0	.6	.8	.3	.0	.0	1.7	3-4	.2	.7	.5	.5	.0	.0	1.7
5-6	.0	.2	.0	.1	.0	.0	.5	5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.3	.2	.0	.0	.5	7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	1.8	1.1	.0	.0	9.9	TOT PCT	.6	4.1	1.5	.7	.0	.0	6.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	5.3	1.2	.0	.0	.0	7.2	<1	.6	3.1	.5	.0	.0	.0	4.2
1-2	.0	1.0	1.0	.0	.0	.0	2.0	1-2	.0	1.1	2.0	.0	.0	.0	3.1
3-4	.0	.3	1.0	.3	.0	.0	1.6	3-4	.0	.3	1.7	.4	.0	.0	2.4
5-6	.0	.0	.4	.3	.0	.0	.9	5-6	.0	.2	1.5	1.0	.2	.0	3.0
7	.0	.0	.3	.2	.0	.0	.6	7	.0	.0	.7	.6	.0	.0	1.5
8-9	.0	.1	.0	.0	.0	.0	.1	8-9	.0	.0	.2	.7	.2	.0	1.0
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.4	.6	.0	.0	1.0
12	.0	.0	.0	.2	.0	.0	.2	12	.0	.0	.2	.3	.2	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.8	4.0	1.1	.0	.0	12.6	TOT PCT	.6	4.7	7.2	3.6	1.0	.0	17.1

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION, VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	3.1	.4	.0	.0	.0		3.6	.2	1.0	.0	.0	.0	.0		1.1
1-2	.0	1.1	1.7	.0	.0	.0		2.8	.0	1.2	1.0	.0	.0	.0		2.2
3-4	.0	1.1	2.6	1.6	.0	.0		5.3	.0	.8	1.0	.4	.0	.0		2.2
5-6	.0	.3	1.0	.0	.3	.0		1.5	.0	.5	1.5	.8	.0	.0		2.8
7	.0	.2	.9	.7	.3	.1		2.2	.0	.0	.9	.4	.0	.0		1.3
8-9	.0	.0	.5	.3	.0	.0		.8	.0	.0	.2	.9	.0	.0		1.1
10-11	.0	.0	.5	.5	.0	.0		.9	.0	.0	.5	.2	.0	.0		.7
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.2	.2	.0	.0		.5
13-16	.0	.0	.0	.3	.1	.0		.4	.0	.0	.2	.1	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	5.8	7.5	3.5	.7	.1		17.7	.2	3.4	5.4	2.9	.2	.0		12.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.7	.0	.0	.0	.0		1.9	.3	1.0	.2	.0	.0	.0		1.5	
1-2	.0	.5	1.7	.0	.0	.0		2.1	.0	.6	.7	.0	.0	.0		1.2	
3-4	.0	.5	1.0	1.0	.0	.0		2.6	.0	.5	1.4	.6	.0	.0		2.4	
5-6	.0	.0	1.1	.5	.0	.0		1.6	.0	.0	.8	.2	.0	.0		1.0	
7	.0	.1	.7	.3	.2	.2		1.7	.0	.4	.4	.6	.1	.1		1.2	
8-9	.0	.0	.3	.8	.1	.0		1.2	.0	.0	.2	.8	.2	.0		1.2	
10-11	.0	.0	.6	.5	.0	.0		1.1	.0	.0	.0	.6	.0	.0		.6	
12	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.2	.0	.0		.2	
13-16	.0	.0	.1	.4	.0	.0		.5	.0	.0	.2	.0	.0	.0		.2	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.8	5.7	3.9	.4	.2		13.3	.3	2.1	3.6	3.3	.3	.1		9.7	45.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.6	19.1	2.6	.0	.0	.0	29.3	
1-2	.3	6.6	9.1	.0	.0	.0	16.0	
3-4	.2	4.8	9.7	5.1	.0	.0	19.8	
5-6	.0	1.2	6.6	3.0	.5	.0	11.2	
7	.0	.5	4.3	3.1	.7	.5	9.1	
8-9	.0	.2	1.5	3.8	.5	.0	5.9	
10-11	.0	.0	2.0	2.6	.0	.0	4.6	
12	.0	.0	.3	1.5	.3	.0	2.1	
13-16	.0	.0	.3	1.0	.3	.0	1.6	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.2	.0	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	32.3	36.6	20.1	2.5	.5	100.0	607

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	2.0	5.9	8.6	4.5	3.3	2.2	1.1	.6	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	4
6-7	.0	8.2	6.1	6.7	3.6	2.6	2.8	1.4	1.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	378	6
8-9	.0	2.0	1.6	2.5	3.2	2.0	2.1	1.4	1.7	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	181	8
10-11	.0	.5	.8	.6	1.4	1.2	1.0	.5	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	77	8
12-13	.0	.0	.4	.4	.4	.4	.1	.3	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	9
13-14	.0	.0	.0	.1	.4	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
14-15	1.9	.7	.7	.7	.8	1.5	.8	.6	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	91	6
TOTAL	41	184	196	166	181	107	87	51	68	5	8	1	1	0	0	0	0	0	0	1076	6
PCT	3.8	17.1	18.2	15.4	15.0	9.9	8.1	4.7	6.3	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG
N	5.0	.4	1.9	.0	1.0	.0	.6	7.6	.6	.0	4.3	.0	.0	.0	87.6
NE	5.2	.0	2.1	.0	.9	.0	.0	7.8	1.9	.0	2.4	.0	.2	.0	87.8
E	15.3	1.8	5.0	.0	.9	.0	.0	22.9	2.9	.0	2.7	.0	.8	.0	70.7
SE	22.9	3.8	9.6	.0	.4	.0	.3	36.4	3.0	.0	6.0	.5	1.5	.1	52.5
S	25.1	3.8	10.4	.0	.2	.0	.0	39.1	5.1	.0	5.8	.0	.7	.2	49.1
SW	11.3	4.2	6.9	.0	.2	.4	.5	23.4	2.5	.0	6.4	.4	.4	.0	66.9
W	4.0	4.6	4.4	.0	.9	.3	1.1	15.2	3.4	.3	2.5	.5	.4	.0	77.7
NW	2.7	1.3	1.3	.0	.1	.0	.2	5.5	2.0	.3	3.7	.4	.4	.0	87.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.9	.0	.0	.0	.0	2.9	.0	.0	8.6	.0	.0	.0	88.6
TOT PCT	12.1	2.9	5.7	.0	.5	.1	.4	21.3	2.8	.1	4.5	.3	.6	*	70.3
TOT OBS:	2232														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST DUST	NO SIG WEA
00003	10.8	2.9	5.1	.0	.2	.0	.2	19.0	2.2	.0	5.9	.3	.3	.0		72.3
06009	14.0	4.3	5.3	.0	.6	.0	.6	24.3	2.6	.2	3.6	.4	.6	.0		68.4
12015	14.5	2.2	5.9	.0	.3	.2	.3	23.1	2.5	.0	4.1	.0	.6	.2		69.5
18021	10.2	2.2	6.0	.0	.9	.2	.3	19.6	3.9	.2	4.8	.3	1.0	.0		70.2
TOT PCT TOT OBS:	12.3 2365	2.8	5.6	.0	.5	.1	.3	21.4	2.8	.1	4.6	.3	.6	*		70.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.7	2.7	.7	.1	.0	7.9	12.1	7.3	8.8	7.3	8.0	7.5	8.0	10.4	5.4		
NE	.7	2.3	1.5	.3	.0	.0	4.9	10.3	2.8	5.8	4.1	5.6	5.6	8.4	2.6	7.4		
E	1.2	3.6	3.7	1.3	.2	.1	10.2	13.5	8.0	6.6	8.2	10.9	10.7	11.9	9.8	17.7		
SE	.6	5.5	6.7	3.3	1.3	.3	17.7	17.1	18.6	15.3	17.3	14.3	16.3	15.4	22.3	18.2		
S	.5	3.5	5.3	3.1	.8	.1	13.3	17.4	15.3	10.7	13.4	13.8	13.2	14.4	13.9	9.8		
SW	.5	4.1	5.4	1.7	.1	.0	12.0	14.1	10.6	18.5	11.0	17.2	11.8	10.7	10.4	10.3		
W	.9	5.1	8.0	2.6	.4	.0	17.0	14.4	18.1	17.0	19.0	16.1	14.3	18.6	17.2	13.4		
NW	.8	5.3	6.4	2.4	.3	.0	15.3	14.4	18.1	14.7	17.7	14.1	17.6	11.7	11.5	14.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8						1.8	.0	1.2	2.4	2.1	.0	3.1	.9	1.8	1.8		
TOT OBS	180	783	944	369	78	14	2368		407	207	331	169	417	226	392	219		
TOT PCT	7.6	33.1	39.9	15.6	3.3	.6		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
								OBS	FREQ	SPD					
N	2.0	3.9	1.4	.5	.0			7.9	12.1		7.8	7.5	7.7	8.6	
NE	1.9	2.2	.6	.1	.0			4.9	10.3		3.8	4.6	6.6	4.3	
E	2.5	4.6	2.1	.7	.2			10.2	13.5		7.5	9.2	11.1	12.4	
SE	2.7	6.9	3.4	2.0	.7			17.7	17.1		17.5	16.3	16.0	20.8	
S	1.8	5.1	4.5	1.6	.3			13.3	17.4		13.8	13.5	13.6	12.4	
SW	2.2	5.7	3.2	.8	.0			12.0	14.1		13.3	13.1	11.4	10.4	
W	2.9	8.1	4.8	1.1	.1			17.0	14.4		17.7	18.0	15.8	18.6	
NW	2.5	7.3	4.4	1.0	.1			15.3	14.4		17.0	16.5	15.5	12.4	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.8							1.8	.0		1.6	1.4	2.3	1.8	
TOT OBS	485	1039	427	182	35	2368			14.5		614	300	443	611	
TOT PCT	20.5	43.9	26.5	7.7	1.5			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1957-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.6	5.7	30.3	41.4	16.4	3.7	.8	15.1	100.0	614
06009	1.4	4.4	32.4	42.4	16.0	2.8	.6	14.6	100.0	500
12015	2.3	6.5	35.9	36.7	14.9	3.3	.3	14.0	100.0	643
18021	1.8	6.2	33.4	39.6	15.1	3.3	.7	14.4	100.0	611
TOT	43	137	783	944	369	78	14	14.5		2368
PCT	1.8	5.8	33.1	39.9	15.6	3.3	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.0	1.1	1.5	2.2		3.5
NE	2.1	.3	.6	1.0		3.3
E	2.6	.8	1.3	3.6		5.1
SE	2.0	1.4	3.4	11.2		6.5
S	.7	1.2	3.5	9.3		6.8
SW	.8	2.0	4.1	5.0		6.1
W	1.9	3.0	6.0	5.6		5.7
NW	5.0	2.1	4.0	4.0		4.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.5	.5		4.5
TOT OBS	261	153	314	539	1263	5.5
TOT PCT	20.7	12.1	24.9	42.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.3	.6	1.1	.6	.4	.0	.1	.0	.0	6.3
NE	.0	.1	.1	.4	.2	.3	.1	.1	.1	.0	.0	2.8
E	.3	.0	.3	.7	1.5	.9	.4	.0	.0	.0	.0	4.1
SE	1.9	.4	1.0	1.3	3.8	2.5	1.1	.4	.0	.0	.1	5.4
S	.9	.2	.4	1.8	3.3	3.1	1.4	.4	.1	.0	.0	3.3
SW	.7	.0	.4	1.0	1.9	2.1	.8	.4	.2	.0	.0	4.2
W	.3	.2	.2	1.4	3.5	2.3	1.2	.8	.1	.2	.0	6.2
NW	.3	.1	.2	1.0	2.2	1.5	.7	.4	.2	.1	.0	8.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.0	.2	.5	.0	.0	.1	.0	.0	.9
TOT OBS	64	12	37	99	227	172	80	32	11	5	524	1263
TOT PCT	5.1	1.0	2.9	7.8	18.0	13.6	6.3	2.5	.9	.4	41.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>OR >5000	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>OR >3500	8.7	11.6	11.9	11.9	11.9	11.9	11.9	11.9
>OR >2000	16.3	24.3	25.3	25.7	25.9	25.9	25.9	25.9
>OR >1000	25.0	39.2	41.8	42.5	43.0	43.0	43.1	43.1
>OR >600	28.5	45.1	48.5	49.6	50.0	50.3	50.4	50.4
>OR >300	29.3	46.9	50.7	52.0	52.6	53.1	53.2	53.2
>OR >150	29.6	47.5	51.4	52.7	53.5	53.9	54.0	54.0
>OR >0	30.1	48.6	53.3	55.5	56.9	58.3	58.8	58.9
TOTAL	404	651	714	744	762	781	788	789

TOTAL NUMBER OF OBS: 1340

PCT FREQ NM <5/8: 41.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.9	9.7	7.3	8.1	6.3	6.8	7.4	9.1	32.3	1392

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.5N 120.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.1	.3	.0	.0	*	.0	.0	.4	
	NO PCP	.1	*	.1	.5	.2	.3	.1	*	.0	*	1.3	
	TOT %	.1	*	.1	.6	.4	.3	.1	*	.0	*	1.7	
1/2<1	PCP	.0	.0	.1	.4	.4	*	.1	.0	.0	.0	1.0	
	NO PCP	.2	.1	.2	.1	.2	.1	.1	.2	.0	.0	1.3	
	TOT %	.2	.1	.3	.5	.6	.2	.2	.2	.0	.0	2.3	
1<2	PCP	.1	*	.1	.9	.6	.3	.1	.0	.0	.0	2.2	
	NO PCP	*	.0	.1	.2	.2	.0	.1	*	.0	.1	.7	
	TOT %	.7	*	.2	1.1	.8	.3	.2	*	.0	.1	2.9	
2<5	PCP	.1	.2	.8	1.7	.8	.3	.2	.1	.0	.0	4.1	
	NO PCP	.0	.1	.1	.5	.3	.3	.2	.2	.0	.0	1.8	
	TOT %	.1	.3	.9	2.2	1.0	.6	.5	.3	.0	.0	6.0	
5<10	PCP	.7	.2	1.0	2.4	2.6	1.6	1.6	.5	.0	*	10.0	
	NO PCP	1.5	1.0	2.2	3.5	2.5	2.8	4.0	2.8	.0	.3	20.6	
	TOT %	1.7	1.2	3.2	5.9	5.0	4.4	5.6	3.3	.0	.4	30.6	
10+	PCP	.7	*	.3	1.1	.7	.6	.5	.3	.0	.0	3.7	
	NO PCP	5.7	3.1	5.0	6.5	4.9	5.6	9.6	11.3	.0	1.1	52.8	
	TOT %	5.9	3.1	5.3	7.5	5.6	6.2	10.1	11.5	.0	1.1	56.5	
TOT OBS													2233
TOT PCT													8.1 4.7 10.0 17.9 13.6 11.9 16.7 13.5 .0 1.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	.0	.0	.2	.1	.1	.0	*	.0	*	.4	
	11-21	*	*	.1	.3	.1	.2	.0	.0	.0	.0	.7	
	22+	*	.0	.0	.2	.2	.0	.1	*	.0	.0	.5	
	TOT %	.1	*	.1	.6	.4	.3	.1	*	.0	*	1.7	
1/2<1	0-3	.0	.0	.1	*	*	.0	.1	.0	.0	.0	.2	
	4-10	.1	.1	.1	*	*	.1	.1	.2	.0	.0	.7	
	11-21	.0	*	.3	.3	*	.1	.1	.0	.0	.0	.8	
	22+	*	.0	.1	.2	.2	*	.0	.0	.0	.0	.6	
	TOT %	.2	.1	.3	.5	.6	.2	.3	.2	.0	.0	2.3	
1<2	0-3	.0	.0	*	*	.0	.0	*	.0	.0	.1	.2	
	4-10	*	.0	.1	.1	.2	*	*	.0	.0	.0	.5	
	11-21	.1	.0	.1	.4	.3	.1	.1	.0	.0	.0	1.2	
	22+	.0	*	.1	.4	.4	.2	.1	.0	.0	.0	1.1	
	TOT %	.2	*	.2	1.0	.8	.3	.3	*	.0	.1	3.0	
2<5	0-3	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.1	
	4-10	.0	.2	.1	.3	.2	.2	.2	.1	.0	.0	1.3	
	11-21	*	.1	.4	.8	.3	.1	.3	.2	.0	.0	2.2	
	22+	*	.0	.4	1.1	.6	.3	.2	.1	.0	.0	2.8	
	TOT %	.1	.3	.9	2.3	1.1	.7	.7	.3	.0	.0	6.3	
5<10	0-3	.2	.4	.3	.1	.2	.2	.3	.3	.0	.3	2.2	
	4-10	.9	.5	1.2	1.9	1.2	1.7	1.7	1.1	.0	.0	10.1	
	11-21	.5	.1	1.1	2.0	2.0	1.9	2.4	1.4	.0	.0	11.3	
	22+	.1	.2	.6	1.7	1.7	.7	1.3	.5	.0	.0	6.7	
	TOT %	1.6	1.1	3.1	5.8	5.0	4.4	5.6	3.3	.0	.3	30.3	
10+	0-3	.4	.3	.8	.4	.3	.3	.5	.4	.0	1.2	4.6	
	4-10	2.7	1.4	2.2	2.8	1.9	2.0	3.2	3.9	.0	.0	20.1	
	11-21	2.2	1.2	2.0	3.0	2.2	3.1	5.0	5.0	.0	.0	23.7	
	22+	.7	.1	.4	1.3	1.1	.8	1.3	2.1	.0	.0	7.9	
	TOT %	5.9	3.1	5.4	7.5	5.3	6.2	10.1	11.3	.0	1.2	56.3	
TOT OBS													2286
TOT PCT													8.1 4.7 10.0 17.8 13.4 11.9 17.0 13.4 .0 1.7 100.0

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	3.6	1.8	3.0	10.2	17.0	13.2	8.1	4.1	1.3	.6	62.2	37.8	394
06009	5.1	.0	2.4	4.1	22.4	11.9	8.1	2.0	1.0	1.7	58.6	41.4	295
12015	4.3	.3	2.1	5.2	12.5	15.3	7.6	3.7	.6	.0	51.7	48.3	327
18021	6.5	1.2	3.2	8.8	16.8	15.6	6.8	1.8	.3	.0	60.9	39.1	340
TOT	65	12	37	99	231	190	104	40	11	5	794	562	1356
PCT	4.8	.9	2.7	7.3	17.0	14.0	7.7	2.9	.8	.4	58.6	41.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	1.9	3.0	2.7	5.3	30.1	57.5	642
06009	1.4	1.2	2.7	7.1	35.3	52.3	518
12015	1.4	3.3	2.7	4.8	32.8	54.9	661
18021	2.7	1.5	3.7	7.3	25.0	59.8	599
TOT	44	56	68	148	743	1361	2420
PCT	1.8	2.3	2.8	6.1	30.7	56.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+		OBS
00003	3.6	9.3	23.3	40.3	36.4	390
06009	5.1	8.3	16.0	49.0	41.0	293
12015	4.3	7.3	15.5	36.6	47.4	322
18021	6.6	11.9	25.1	37.0	37.9	335
TOT	65	126	272	525	543	1340
PCT	4.9	9.4	20.3	39.2	40.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	<29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
60/64	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
55/59	.0	.0	.2	.1	.3	.0	.0	.0	8	.6
50/54	.0	.1	.0	.5	2.0	2.0	2.6	1.7	120	9.0
45/49	.0	.0	.1	.7	3.6	10.3	13.1	18.5	622	46.3
40/44	.0	.0	.3	.5	2.8	6.4	15.1	13.4	516	38.5
35/39	.0	.0	.1	.1	.1	.8	1.5	2.5	67	5.0
30/34	.0	.0	.0	.0	.0	.0	.2	.1	5	.4
TOTAL	0	1	10	27	117	262	436	486	1339	100.0
PCT	.0	.1	.7	2.0	6.7	19.6	32.6	36.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.0	.0	.1	.1	.0	.1	.2	.1	.0	.0
1.0	.3	1.1	1.7	1.6	.8	.9	1.4	.0	.1
3.5	2.4	4.4	6.9	7.4	6.0	8.3	6.9	.0	.7
4.1	1.1	3.1	5.9	4.4	4.5	7.0	8.0	.0	.4
.3	.4	.4	1.0	.9	.4	1.0	.5	.0	.1
.0	.0	.0	.0	.1	.1	.1	.1	.0	.0
9.0	4.2	9.1	15.5	14.4	11.9	17.6	17.1	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	64	57	52	46	39	35	33	45.8	656
06009	56	53	50	45	38	35	30	44.4	527
12015	54	53	49	44	37	34	32	43.8	684
18021	63	55	52	45	38	34	30	49.2	626
TOT	64	55	51	45	38	34	30	44.8	2493

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	3.1	10.2	20.8	31.0	34.9	83	413
06009	.0	3.2	5.8	19.5	41.5	30.0	84	277
12015	.0	1.5	5.9	17.1	36.6	39.0	86	410
18021	.0	3.1	11.4	19.7	28.6	37.2	83	325
TOT	0	38	119	274	486	508	84	1425

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.1	9	.1	.4
9/10	.0	.0	.0	.0	.1	.1	.3	.1	.0	11	.1	.5
7/8	.0	.0	.0	.0	.0	.6	.5	.1	.1	23	.0	1.2
6	.0	.0	.0	.0	.3	.4	.3	.0	.0	18	.1	.9
5	.0	.0	.0	.2	.5	1.1	.4	.0	.0	40	.1	2.0
4	.0	.0	.0	.2	1.0	1.8	.3	.0	.0	62	.3	2.9
3	.0	.0	.0	.3	1.2	1.9	.2	.0	.0	69	.2	3.4
2	.0	.0	.0	.4	4.1	1.8	.3	.0	.0	129	.4	6.2
1	.0	.0	.0	.6	3.9	1.7	.1	.0	.0	122	.4	5.8
0	.0	.0	.2	1.6	9.6	1.2	.1	.0	.0	249	1.1	11.5
-1	.0	.0	.2	2.9	7.5	.4	.0	.0	.0	216	.7	10.3
-2	.0	.0	.3	5.0	6.4	.1	.1	.0	.0	234	.6	11.3
-3	.0	.0	.5	4.4	2.5	.1	.1	.0	.0	148	.2	7.4
-4	.1	.0	.8	4.7	1.8	.1	.0	.0	.0	146	.4	7.1
-5	.1	.1	1.8	5.0	2.0	.1	.0	.0	.0	177	.2	8.8
-6	.0	.0	1.1	2.5	.3	.1	.0	.0	.0	78	.1	3.9
-7/-8	.0	.1	2.6	5.4	.4	.0	.0	.0	.0	168	.4	8.2
-9/-10	.0	.5	.9	.6	.1	.0	.0	.0	.0	39	.3	1.7
-11/-13	.0	.9	.1	.2	.1	.0	.0	.0	.0	23	.0	1.2
-14/-16	.0	.1	.2	.1	.0	.0	.0	.0	.0	7	.0	.4
TOTAL	2	32	166	667	821	224	49	4	4	1969	101	1868
PCT	.1	1.6	8.4	33.9	41.7	11.4	2.5	.2	.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.9	.1	.0	.0	.0	2.4	.4	.5	.5	.0	.0	.0	1.0
1-2	.2	2.4	.7	.0	.0	.0	3.3	.0	.3	.4	.0	.0	.0	.8
3-4	.2	1.0	.9	.4	.0	.0	2.5	.0	.2	.2	.2	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.3	.4	.0	.0	.6	.0	.2	.0	.2	.0	.0	.3
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.3	2.4	1.4	.2	.0	10.1	.4	1.2	1.4	.3	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.4	.0	.0	.0	2.0	.1	2.3	.6	.0	.0	.0	3.2
1-2	.0	1.4	1.2	.0	.0	.0	2.6	.2	1.0	2.0	.0	.0	.0	3.2
3-4	.0	.2	1.6	.2	.0	.0	2.1	.0	.7	1.7	.5	.0	.0	2.9
5-6	.0	.0	.1	.2	.0	.0	.3	.0	.4	1.3	1.3	.4	.0	3.7
7	.0	.1	.3	.4	.0	.0	.8	.0	.8	.8	.6	.4	.0	1.8
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	1.0	.2	.0	1.1
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.4	.3	.0	1.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	3.7	1.6	.0	.0	8.8	.2	4.7	6.7	4.1	1.8	.1	17.6

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.2	.0	.0	.0	.8	.0	1.6	.3	.0	.0	.0	1.9
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.2	1.1	1.5	.0	.0	.0	2.7
3-4	.0	1.2	1.5	2.0	.0	.0	4.7	.0	.4	1.5	.5	.0	.0	2.4
5-6	.0	.3	2.2	1.0	.3	.0	3.9	.0	.2	1.5	.5	.2	.0	2.3
7	.0	.2	.8	.3	.1	.1	1.5	.0	.2	.7	.0	.0	.0	.9
8-9	.0	.0	.3	.8	.0	.0	1.0	.0	.0	.4	.9	.0	.0	1.3
10-11	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.2	.2	.1	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.1	6.3	4.6	1.0	.2	15.4	.2	3.4	6.1	1.9	.2	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.1	.0	.0	.0	.0	1.2	.1	1.2	.5	.0	.0	.0	1.8	
1-2	.0	.8	2.2	.0	.0	.0	3.0	.0	1.1	2.1	.0	.0	.0	3.3	
3-4	.0	.4	3.1	.6	.0	.0	4.3	.0	.8	1.9	1.0	.0	.0	3.7	
5-6	.0	.4	1.3	.8	.0	.0	2.3	.0	.4	1.5	1.0	.2	.0	3.0	
7	.0	.0	.4	.8	.0	.0	1.0	.0	.2	.4	.7	.0	.0	1.7	
8-9	.0	.0	.7	.3	.3	.0	1.2	.0	.0	.6	.2	.2	.0	1.0	
10-11	.0	.0	.0	.2	.3	.0	.5	.0	.0	.3	.6	.0	.0	1.0	
12	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.7	9.1	2.4	.9	.0	14.3	.1	3.7	7.9	3.8	.6	.0	16.0	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.2	10.6	2.7	.0	.0	.0	17.5	
1-2	.5	9.1	11.2	.0	.0	.0	20.8	
3-4	.2	5.0	12.5	5.4	.0	.0	23.1	
5-6	.0	1.6	8.5	4.8	1.0	.0	15.9	
7	.0	.8	4.2	3.0	.5	.2	8.7	
8-9	.0	.0	2.2	3.5	.8	.0	6.6	
10-11	.2	.0	.8	1.9	.8	.0	3.7	
12	.0	.0	.3	.8	.5	.0	1.6	
13-16	.0	.0	.2	.3	.4	.0	.8	
17-19	.0	.2	.0	.2	.8	.2	1.3	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	27.2	42.6	20.0	4.8	.3	100.0	624

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.1	7.5	4.6	3.6	2.6	1.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	316
6-7	.1	6.3	7.8	9.3	4.3	3.4	2.4	1.1	.8	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	444
8-9	.0	3.2	3.1	3.9	2.8	2.9	2.6	.7	1.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	258
10-11	.0	1.1	.7	1.1	.6	.7	.7	.2	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	77
12-13	.0	.0	.2	.2	.5	.4	.1	.2	.3	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	30
>13	.0	.0	.0	.0	.1	.1	.0	.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	15
INDET	1.6	.7	1.3	1.0	.7	.2	.7	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	83
TOTAL	2.7	20.1	25.3	24.6	19.5	12.7	9.3	3.6	5.4	1.1	1.2	.5	.3	.0	.0	.0	.0	.0	.0	.0	1223
PCT	2.2	16.4	20.7	20.1	12.7	10.4	7.6	2.9	4.4	.9	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0

APRIL

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1961-1974AREA 0041 VANCOUVER IS. SW
48.9N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.9	.9	1.2	.0	.0	.0	.0	5.0	.0	.0	2.4	.0	.0	.0	92.6
NE	4.9	1.2	.0	.0	.0	.0	.0	6.2	.9	.0	3.1	.0	.0	.0	89.8
E	15.3	2.5	5.0	.0	.0	.0	.0	22.1	2.9	.0	2.6	.0	1.2	.0	71.1
SE	15.7	3.1	8.4	.0	.0	.0	.0	26.2	2.6	.2	4.0	.3	.7	.3	65.8
S	18.6	3.5	8.6	.0	.0	.0	.6	30.6	3.5	.5	4.7	.9	.3	.0	59.8
SW	12.3	5.5	6.4	.0	.4	.0	.5	24.7	4.6	.0	6.2	.0	.4	.0	64.1
W	7.5	3.0	2.7	.0	.0	.0	.0	12.6	2.8	.5	3.7	.0	.6	.0	79.8
NW	2.1	2.1	1.2	.0	.0	.0	.0	5.3	1.4	.0	1.8	.0	.3	.2	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	2.2	2.2	.0	.0	.0	.0	6.5	.0	.0	6.5	.0	.0	.0	87.0
TOT PCT	9.6	2.9	4.4	.0	*	.0	.1	16.7	2.5	.2	3.6	.2	.5	.1	76.3
TOT OBS:	2197														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	9.8	3.0	3.3	.0	.0	.0	.0	15.6	2.5	.0	3.9	.2	.6	.0	77.1
06009	7.6	3.2	4.2	.0	.0	.0	.0	14.9	2.1	.2	3.8	.2	.0	.0	78.8
12015	10.1	2.6	5.6	.0	.0	.0	.0	18.1	3.4	.2	3.0	.0	.0	.3	75.0
18021	9.1	2.8	4.2	.0	.2	.0	.5	16.1	1.4	.4	4.2	.4	1.1	.0	76.7
TOT PCT TOT OBS:	9.3 2298	2.9	4.4	.0	* .0	.0	.1	16.3	2.4	.2	3.7	.2	.4	.1	76.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.7	2.9	1.9	.9	.2	.0		6.5	12.4		5.0	3.7	7.4	8.1	7.2	7.8	6.7	6.0
NE	.6	1.7	.9	.3	*	.0		3.6	10.3		1.6	2.8	3.4	2.6	3.4	5.8	4.5	5.7
E	.8	3.2	2.6	.6	*			7.3	11.4		4.1	6.4	5.1	7.4	8.1	11.0	6.1	13.6
SE	.9	3.4	4.8	2.4	.3	.1		14.0	14.2		10.6	12.1	9.1	13.5	13.4	15.0	16.9	23.2
S	.7	4.6	6.4	2.6	.4	.1		14.8	15.2		16.6	11.7	16.4	14.5	14.7	19.5	16.8	10.5
SW	.5	4.8	4.6	1.4	.1	.0		11.4	13.2		12.7	15.0	13.0	9.3	10.6	9.0	11.4	8.8
W	1.1	8.5	7.4	1.8	.0	*		18.8	12.2		20.3	25.2	18.8	21.2	19.4	14.8	17.9	19.2
NW	.6	7.7	8.5	3.8	.6	.0		21.2	14.9		25.9	22.1	24.5	20.9	19.1	21.3	18.2	16.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		3.1	1.0	2.3	2.3	4.0	1.8	1.6	2.9
TOT OBS	195	901	862	322	38	6	2324		13.2		416	208	299	172	397	221	373	238
TOT PCT	8.4	38.8	37.1	13.9	1.6	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.9	3.0	1.2	.4	.0			6.5	12.4	4.6	7.6	7.4	6.4
NE	1.3	1.8	.5	.1	.0			3.6	10.3	2.0	3.1	4.2	5.0
E	2.3	3.5	1.3	.2	*			7.3	11.4	4.9	5.9	9.1	9.0
SE	3.0	6.3	3.5	1.1	.2			14.0	14.2	11.1	10.7	14.0	19.4
S	2.5	6.6	4.3	1.2	.1			14.8	15.2	15.0	15.7	14.2	14.3
SW	2.3	5.5	2.9	.7	.0			11.4	13.2	13.5	11.6	10.1	10.4
W	4.5	9.6	4.3	.3	*			18.8	12.2	21.9	19.7	17.8	16.1
NW	3.6	9.5	6.2	1.7	.1			21.2	14.9	24.8	23.2	19.9	17.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.4	2.3	3.2	2.1
TOT OBS	556	1062	560	134	12	2324		13.2		624	471	618	611
TOT PCT	23.9	45.7	24.1	5.8	.5			100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.4	5.6	37.0	37.8	15.9	1.3	.0	13.5	100.0	624
0600	2.3	4.9	41.0	38.5	14.0	1.3	.0	12.8	100.0	471
1200	3.2	6.3	40.1	36.4	12.1	1.1	.6	12.7	100.0	618
1800	2.1	6.4	37.5	37.5	13.4	2.8	.3	13.6	100.0	611
TOT	59	136	901	862	322	38	6	13.2		2324
PCT	2.5	5.9	38.8	37.1	13.9	1.6	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	3.1	1.2	1.5	1.0		3.4
NE	1.1	.5	1.1	.6		4.3
E	1.6	.7	1.2	2.4		5.3
SE	1.1	1.4	3.2	7.2		6.5
S	1.4	1.3	4.6	9.1		6.5
SW	1.0	1.3	4.1	5.7		6.4
W	2.3	2.7	6.7	6.9		5.8
NW	7.7	3.2	6.6	4.1		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.6	.4	.6		3.9
TOT OBS	247	159	358	459	1219	5.4
TOT PCT	20.3	12.7	29.4	37.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	6499	7999				
N	.1	.0	.2	.1	.9	.7	.1	.0	.0	.0	4.7	
NE	.0	.0	.0	.2	.4	.5	.2	.2	.0	.0	2.0	
E	.1	.0	.2	.6	.9	.5	.3	.1	.2	.0	3.0	
SE	.6	.0	.3	2.0	2.3	1.8	1.2	.8	.3	.0	3.6	
S	1.2	.0	.6	2.2	3.4	2.4	1.6	.6	.3	.1	4.1	
SW	.3	.1	.5	1.9	3.1	1.7	1.0	.2	.1	.0	3.3	
W	.6	.2	.8	1.1	3.6	2.6	1.3	.7	.1	.0	7.3	
NW	.1	.2	.1	.5	3.4	2.4	1.8	.3	.4	.0	13.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.2	.2	.0	.1	.0	.0	1.9	
TOT OBS	36	6	35	106	220	156	79	35	18	1	527	1219
TOT PCT	3.0	.5	2.9	8.7	18.0	12.8	6.5	2.9	1.5	.1	43.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >3500	8.8	10.7	10.7	10.8	10.8	10.8	10.8	10.8
= OR >2000	17.0	22.9	23.3	23.5	23.6	23.6	23.6	23.6
= OR >1000	27.5	39.4	41.1	41.5	41.6	41.7	41.7	41.7
= OR >600	32.1	46.3	48.8	49.7	50.0	50.1	50.1	50.1
= OR >300	33.0	48.3	51.3	52.3	52.7	52.9	52.9	52.9
= OR >150	33.3	48.7	51.8	52.8	53.2	53.3	53.3	53.3
= OR >0	33.3	49.2	53.3	54.7	55.4	56.0	56.2	56.2
TOTAL	420	620	671	689	698	706	708	708

TOTAL NUMBER OF OBS: 1260

PCT FREQ NH <5/8: 43.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
12.2	7.1	9.7	8.2	5.8	8.5	7.5	9.9	28.5	2.6	1310

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974

APRIL

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.2	.1	.2	.1	.1	.0	.0	.8	
	TOT %	.0	.0	.0	.3	.2	.2	.1	.1	.0	.0	.9	
1/2<1	PCP	.0	.0	.1	.2	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.1	.0	.1	.3	.2	.1	.2	.1	.0	.0	1.2	
	TOT %	.1	.0	.2	.4	.3	.3	.3	.1	.0	.0	1.8	
1<2	PCP	.1	.0	.1	.4	.3	.2	.2	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.1	.0	.1	.5	.4	.3	.3	.1	.0	.0	1.6	
2<5	PCP	.1	.1	.0	.7	1.1	.4	.2	.1	.0	.0	2.7	
	NO PCP	.1	.1	.0	.3	.5	.2	.3	.4	.0	.0	1.9	
	TOT %	.1	.1	.1	1.0	1.6	.6	.5	.5	.0	.0	4.6	
5<10	PCP	.1	.1	.9	1.8	2.1	1.2	1.4	.6	.0	.1	8.3	
	NO PCP	1.4	.5	1.3	2.4	2.7	2.1	4.4	4.0	.0	.2	19.0	
	TOT %	1.5	.6	2.2	4.2	4.8	3.3	5.8	4.5	.0	.3	27.3	
10+	PCP	.1	.0	.4	.5	.8	1.0	.5	.4	.0	.0	3.8	
	NO PCP	4.7	2.8	4.2	6.8	6.4	5.9	11.6	14.8	.0	1.6	59.9	
	TOT %	4.8	2.9	4.6	7.4	7.2	6.8	12.1	15.3	.0	1.7	63.7	
TOT OBS													2196
TOT PCT		6.6	3.7	7.3	13.7	14.5	11.5	19.1	21.6	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	.2	.2	.2	.1	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.1	.1	.1	.0	.2	.1	.0	.0	.7	
	11-21	.0	.0	.1	.2	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.1	.0	.2	.4	.3	.2	.3	.1	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.4	
	11-21	.0	.0	.0	.2	.2	.2	.1	.0	.0	.0	.8	
	22+	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.0	.1	.5	.4	.2	.3	.1	.0	.0	1.7	
2<5	0-3	.1	.1	.0	.2	.1	.0	.1	.0	.0	.2	.7	
	4-10	.0	.0	.1	.4	.3	.4	.1	.1	.0	.0	1.5	
	11-21	.1	.0	.1	.4	.8	.2	.3	.3	.0	.0	2.2	
	22+	.0	.0	.0	.4	.5	.1	.0	.1	.0	.0	1.3	
	TOT %	.2	.1	.1	1.4	1.7	.8	.5	.5	.0	.2	5.6	
5<10	0-3	.1	.1	.2	.2	.4	.1	.3	.1	.0	.3	1.9	
	4-10	.7	.4	.8	1.0	1.4	1.2	2.3	1.6	.0	.0	9.7	
	11-21	.4	.0	.8	1.7	1.7	1.6	2.3	2.0	.0	.0	10.6	
	22+	.2	.1	.4	1.1	1.2	.4	.6	.8	.0	.0	4.7	
	TOT %	1.5	.6	2.2	4.1	4.7	3.2	5.7	4.5	.0	.3	26.8	
10+	0-3	.5	.4	.6	.5	.2	.4	.6	.4	.0	2.0	5.5	
	4-10	2.0	1.4	2.2	3.9	2.5	3.0	5.5	5.7	.0	.0	26.2	
	11-21	1.4	.9	1.6	2.1	3.3	2.5	4.8	6.3	.0	.0	22.9	
	22+	.8	.2	.8	1.2	.8	.8	1.1	3.6	.0	.0	8.6	
	TOT %	4.7	2.8	4.6	7.3	7.1	6.7	12.0	16.1	.0	2.0	63.2	
TOT OBS													2235
TOT PCT		6.5	3.6	7.3	13.9	14.4	11.4	19.0	21.5	.0	2.5	100.0	

APRIL

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	2.1	.3	2.1	6.7	19.3	10.7	8.8	2.4	1.6	.0	54.4	45.6	373
06009	2.7	.4	3.9	5.5	17.2	12.9	5.9	2.3	1.6	.0	52.3	47.7	256
12015	3.1	.0	1.5	12.0	13.9	12.3	5.6	3.7	1.2	.0	53.4	46.6	324
18021	3.4	.9	3.8	8.8	21.0	15.0	5.0	2.8	1.3	.3	62.4	37.6	319
TOT	36	6	35	106	228	161	82	36	18	1	709	563	1272
PCT	2.8	.3	2.8	8.3	17.9	12.7	6.4	2.8	1.4	.1	55.7	44.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.8	1.9	1.4	4.5	26.9	64.6	644
06009	1.0	2.3	2.1	6.2	33.0	55.5	485
12015	.9	1.7	1.2	5.0	30.4	60.7	641
18021	1.5	1.5	1.9	6.1	22.0	67.0	587
TOT	25	43	38	127	657	1467	2357
PCT	1.1	1.8	1.6	5.4	27.9	62.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	2.2	5.4	14.6	40.5	44.9	370
06009	2.7	8.2	16.1	38.0	45.9	255
12015	3.1	5.0	20.4	35.1	44.5	319
18021	3.5	8.2	19.3	43.7	37.0	316
TOT	36	83	221	497	542	1260
PCT	2.9	6.6	17.5	39.4	43.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.0	.0	.0	.1	.0	2	.1
60/64	.0	.0	.1	.1	.0	.0	.1	.1	5	.3
59/59	.0	.0	.3	.3	.9	.6	.5	.8	49	3.4
50/54	.0	.0	.0	.3	2.8	2.8	6.8	7.3	288	19.9
49/49	.0	.0	.0	.8	2.8	11.1	17.5	21.8	782	54.1
40/44	.0	.0	.1	.5	2.0	4.6	6.6	6.0	288	19.9
39/39	.0	.0	.0	.0	.2	.0	.8	1.2	32	2.2
TOTAL	0	0	8	28	126	278	469	537	1446	100.0
PCT	.0	.0	.6	1.9	8.7	19.2	32.4	37.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
69/69	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1
59/59	.2	.3	.2	.4	.2	.5	.5	.9	.0	.1
50/54	1.1	1.1	2.1	3.4	2.9	2.2	3.6	3.0	.0	.6
49/49	3.4	1.6	4.0	7.1	9.0	7.3	9.8	11.1	.0	.8
40/44	.6	.3	1.0	2.1	2.7	2.2	5.1	5.7	.0	.1
39/39	.0	.0	.1	.5	.3	.3	.7	.1	.0	.1
TOTAL	5.3	3.4	7.4	13.6	15.2	12.5	19.7	21.0	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	61	56	48	43	41	35	48.4	653
06009	63	55	53	46	41	37	36	46.5	493
12015	56	54	52	46	40	38	36	46.0	641
18021	67	58	55	48	42	39	34	48.2	621
TOT	67	59	54	45	41	39	34	47.3	2408

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	12.9	20.3	31.4	32.1	83	449
06009	.0	2.0	4.7	21.9	33.7	37.7	85	297
12015	.0	1.0	4.4	14.5	35.6	44.6	87	413
18021	.0	3.7	11.2	20.1	30.2	34.8	83	348
TOT	0	38	129	286	493	561	84	1507

APRIL

PERIOD: (PRIMARY) 1935-1974
(OVER-ALL) 1861-1974AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.1	.2	.1	7	.0	.4
11/13	.0	.0	.0	.0	.1	.1	.3	.1	.0	11	.1	.5
9/10	.0	.0	.0	.0	.0	.5	.6	.0	.0	21	.1	1.0
7/8	.0	.0	.0	.1	.3	.8	.3	.1	.0	30	.1	1.5
6	.0	.0	.0	.1	.5	.4	.1	.0	.0	20	.0	1.0
5	.0	.0	.0	.3	1.2	1.3	.1	.0	.0	56	.2	2.7
4	.0	.0	.1	.7	2.1	.9	.1	.0	.0	74	.3	3.6
3	.0	.0	.1	.9	2.5	.6	.0	.0	.0	78	.2	3.9
2	.0	.0	.2	3.6	6.0	.7	.0	.0	.0	207	.4	10.3
1	.0	.0	.2	3.7	3.6	.2	.0	.0	.0	148	.5	7.1
0	.0	.1	.6	8.8	3.3	.2	.1	.0	.0	251	.6	12.4
-1	.0	.0	1.3	6.8	1.7	.1	.0	.0	.0	228	.6	11.2
-2	.0	.1	2.2	9.6	1.1	.1	.0	.0	.0	250	.5	12.4
-3	.0	.1	2.4	5.9	.2	.0	.0	.0	.0	166	.3	8.3
-4	.0	.2	2.8	2.8	.2	.0	.0	.0	.0	115	.2	5.7
-5	.0	.2	2.8	1.7	.1	.0	.0	.0	.0	91	.0	4.7
-6	.0	.2	1.7	.4	.0	.0	.0	.0	.0	44	.1	2.2
-7/-8	.0	.9	2.6	.5	.1	.0	.0	.0	.0	79	.1	4.0
-9/-10	.1	1.3	.6	.1	.0	.0	.0	.0	.0	39	.0	2.0
-11/-13	.1	.5	.2	.0	.0	.0	.0	.0	.0	15	.0	.8
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	66	346	928	435	112	31	8	1	1931	3.9	1855
PCT	.2	3.4	17.9	48.1	22.5	5.8	1.6	.4	.1	100.0	3.9	96.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.7	.0	.0	.0	.0		.9	.0	.3	.0	.0	.0	.0		.3
1-2	.1	.2	.1	.0	.0	.0		.5	.0	.0	.3	.0	.0	.0		.5
3-4	.0	1.1	.5	.0	.0	.0		1.5	.0	.4	.1	.0	.0	.0		.6
5-6	.0	.0	.1	.2	.2	.0		.6	.0	.3	.3	.0	.0	.0		.6
7	.0	.0	.3	.1	.1	.0		.5	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.8	.0	.0		.8	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.0	1.0	1.4	.4	.0		5.2	.0	1.0	.9	.0	.0	.0		2.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0		.4	.0	2.2	.0	.0	.0	.0		2.2
1-2	.0	.6	.3	.0	.0	.0		.9	.1	1.3	.5	.0	.0	.0		2.0
3-4	.0	.3	.7	.0	.0	.0		1.2	.1	.5	1.7	.5	.0	.0		3.1
5-6	.0	.0	.3	.0	.0	.0		.5	.0	.3	1.3	.3	.0	.0		2.1
7	.0	.3	.1	.0	.0	.0		.4	.0	.0	.3	.3	.0	.0		.7
8-9	.0	.0	.1	.1	.0	.0		.3	.0	.1	.3	.3	.0	.0		.7
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.3	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	1.6	1.9	.1	.0	.0		3.8	.3	4.7	4.5	2.1	.0	.0		11.7

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0041 VANCOUVER IS. SW
40.5N 120.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.4	.0	.0	.0	2.8	.0	1.4	.2	.0	.0	.0	1.6
1-2	.0	1.2	2.2	.0	.0	.0	3.4	.0	2.4	1.4	.0	.0	.0	3.9
3-4	.0	1.2	2.1	1.1	.0	.0	4.5	.0	1.2	2.0	.2	.0	.0	3.3
5-6	.0	.2	2.2	1.1	.0	.0	3.6	.0	.8	1.0	1.1	.0	.0	2.9
7	.0	.1	.6	.4	.1	.1	1.3	.0	.0	.9	.3	.0	.0	1.3
8-9	.0	.0	.5	.2	.0	.0	.7	.0	.0	.9	.*	.0	.0	.9
10-11	.0	.0	.2	.6	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.*	.0	.0	.*
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.*	.0	.0	.*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.9	8.4	4.0	.2	.1	17.9	.0	5.8	7.0	1.9	.0	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.9	.1	.0	.0	.0	2.2	.1	2.3	.4	.0	.0	.0	3.0	
1-2	.1	2.3	2.5	.0	.0	.0	5.0	.1	2.0	1.2	.0	.0	.0	3.3	
3-4	.0	2.4	3.2	.3	.0	.0	6.0	.0	1.6	2.5	.6	.0	.0	4.7	
5-6	.0	1.0	1.5	.9	.0	.0	3.5	.0	.9	2.1	.9	.3	.0	4.4	
7	.0	.0	1.3	.2	.0	.0	1.5	.0	.0	1.0	1.4	.2	.0	2.6	
8-9	.0	.0	.5	.1	.0	.0	.6	.0	.0	.5	.8	.1	.0	1.4	
10-11	.0	.1	.5	.1	.0	.0	.8	.0	.0	.3	1.1	.2	.0	1.6	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.1	.0	.4	
13-16	.0	.0	.1	.2	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	7.8	9.7	2.1	.0	.0	19.9	.2	6.9	7.9	3.4	1.1	.0	21.6	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	11.5	1.1	.0	.0	.0	16.9	
1-2	.6	10.1	8.8	.0	.0	.0	19.4	
3-4	.1	8.9	13.0	2.8	.0	.0	24.9	
5-6	.0	3.6	8.9	4.6	.7	.0	17.9	
7	.0	.4	4.5	2.8	.4	.1	8.2	
8-9	.0	.1	2.8	2.4	.1	.0	5.4	
10-11	.0	.1	1.4	2.1	.3	.0	3.9	
12	.0	.0	.3	.6	.3	.0	1.1	
13-16	.0	.0	.4	1.1	.0	.0	1.5	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	36.8	41.2	17.0	1.8	.1	100.0	716

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.1	4.7	7.9	5.5	2.8	2.6	2.0	.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	341	5
6-7	.0	3.9	8.8	8.9	4.4	3.1	2.3	1.2	1.9	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	413	6
8-9	.0	3.4	3.2	2.5	3.2	2.6	1.5	1.0	1.0	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	224	7
10-11	.0	.9	.3	.7	1.1	.8	.8	.4	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	73	8
12-13	.0	.0	.3	.1	.3	.2	.1	.4	.9	.2	.0	.1	.2	.0	.0	.0	.0	.0	.0	32	12
3-13	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	9	11
INDET	2.2	.7	1.4	.5	.3	.5	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	4
TOTAL	30	160	258	215	144	116	85	48	64	14	8	2	6	0	0	0	0	0	0	1170	6
PCT	4.3	13.7	22.1	18.4	12.3	9.9	7.3	4.1	5.3	1.2	.7	.2	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1857-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 126.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.2	3.1	.0	.0	.0	.0	3.6	.5	.0	4.5	.4	2.2	.0	88.8
NE	3.2	2.4	6.8	.0	.0	.0	.8	13.2	2.4	.0	4.8	.0	.0	.0	79.6
E	9.2	9.4	5.6	.0	.0	.0	.4	24.6	3.6	.0	5.3	.0	3.0	.0	63.6
SE	14.5	9.8	5.7	.0	.0	.0	.6	30.6	2.8	.0	7.4	.0	1.1	.0	58.1
S	12.3	7.3	7.0	.0	.0	.0	.2	26.8	3.0	.0	7.5	.0	.9	.0	61.8
SW	6.4	4.9	7.0	.0	.0	.0	.0	18.1	2.4	.0	3.5	.5	.8	.0	74.7
W	3.4	3.7	3.2	.0	.0	.0	.0	10.2	1.7	.2	4.3	.3	1.2	.0	82.1
NW	1.1	1.2	1.0	.0	.0	.0	.0	3.4	.8	.0	5.3	.2	1.2	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	5.8	.0	5.0	.0	87.6
TOT PCT	5.2	4.0	3.9	.0	.0	.0	.1	13.1	1.7	*	5.3	.2	1.4	.0	78.2
TOT OBS:	2622														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.6	3.9	3.3	.0	.0	.0	.0	11.7	.9	.0	4.3	.1	1.9	.0	81.1
06009	5.4	4.9	2.3	.0	.0	.0	.2	12.8	1.9	.2	7.2	.0	.3	.0	77.4
12015	6.9	5.0	4.6	.0	.0	.0	.1	16.4	1.6	.0	5.5	.4	.9	.0	75.1
18021	4.5	2.7	4.5	.0	.0	.0	.1	11.8	2.3	.0	5.5	.3	2.0	.0	78.1
TOT PCT	5.4	4.1	3.7	.0	.0	.0	.1	13.3	1.7	*	5.5	.2	1.4	.0	77.9
TOT OBS:	2706														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	4.0	2.3	.4	.0	.0		7.6	10.0		7.0	5.1	11.2	6.5	8.7	5.2	9.4	4.9
NE	.6	1.5	.4	.0	.0	.0		2.4	8.5		1.3	1.6	2.5	3.4	2.7	3.8	1.4	3.8
E	.8	2.7	1.3	.4	.1	.0		5.2	9.9		3.2	5.2	2.9	4.1	4.2	7.7	4.7	11.5
SE	.4	4.4	3.7	1.5	.3	.0		10.4	13.7		8.4	7.7	8.4	13.7	10.0	17.1	8.9	11.9
S	.6	4.8	4.9	1.1	.3	.0		11.8	12.9		12.4	11.1	11.5	12.5	8.6	10.9	11.9	17.2
SW	1.6	5.5	5.5	.4	.0	.0		11.0	9.5		11.8	14.3	8.4	11.0	8.8	13.8	9.9	11.6
W	1.3	8.9	7.1	1.1	.0	.0		18.6	11.0		19.6	27.1	17.7	19.3	18.0	16.2	16.2	17.3
NW	1.4	9.2	12.6	4.4	.7	.0		28.2	14.3		32.2	24.0	32.6	23.8	32.4	19.5	30.4	21.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		4.0	4.0	4.8	2.7	6.8	5.9	7.1	.7
TOT OBS	346	1132	993	258	37	0	2766		11.5		448	251	336	222	473	289	434	293
TOT PCT	12.5	40.9	33.9	9.3	1.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.5	4.0	1.0	.1	.0			7.6	10.0	6.3	9.4	7.4	7.6
NE	1.6	.8	.1	.0	.0			2.4	8.5	1.4	2.8	3.1	2.4
E	2.3	2.1	.4	.2	.0			5.2	9.9	3.9	3.4	5.5	7.5
SE	1.9	5.2	2.4	.8	.0			10.4	13.7	8.1	10.5	12.7	10.1
S	2.5	6.2	2.6	.4	.1			11.8	12.9	11.9	11.9	9.4	14.0
SW	3.9	5.8	1.2	.1	.0			11.0	9.5	12.7	9.8	10.7	10.6
W	5.1	10.2	3.1	.2	.0			18.6	11.0	22.3	18.3	17.3	16.7
NW	4.7	14.0	7.6	1.7	.2			28.2	14.3	29.3	30.0	27.5	28.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	4.0	4.0	6.3	4.5
TOT OBS	809	1335	516	98	8	2766			4.3	499	578	762	727
TOT PCT	29.2	48.3	18.7	3.5	.3			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1857-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 126.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.0	7.3	40.5	38.5	8.3	1.4	.0	11.7	100.0	699
06009	4.0	5.5	40.1	37.0	12.1	1.2	.0	12.3	100.0	578
12015	6.3	9.7	39.6	34.0	8.9	1.4	.0	11.0	100.0	762
18021	4.5	7.8	43.3	34.5	8.5	1.2	.0	11.3	100.0	727
TOT	132	214	1132	993	258	37	0	11.5		2766
PCT	4.8	7.7	40.9	35.9	9.3	1.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.3	2.7	2.6		4.9
NE	.5	.2	.3	.9		5.5
E	.7	.1	1.0	2.3		6.2
SE	.8	.4	2.2	5.3		6.7
S	.7	.7	2.7	8.6		7.0
SW	.9	.8	3.4	3.9		6.2
W	2.4	2.3	6.9	5.6		5.7
NW	6.9	5.2	9.8	9.4		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.9	.6	1.5	1.9		4.7
TOT OBS	246	166	443	584	1441	5.7
TOT PCT	17.1	11.5	30.9	40.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.5	.0	.1	.5	1.0	2.0	.2	.1	.1	.1	4.5	
.1	.0	.1	.5	.5	.4	.0	.0	.0	.0	.8	
.1	.0	.3	.2	.9	.3	.3	.1	.1	.1	1.7	
.3	.1	.3	.7	2.3	1.6	.5	.3	.1	.1	2.8	
1.2	.1	.3	1.2	3.4	2.6	.5	.5	.0	.1	2.8	
.2	.0	.2	.5	2.4	1.9	.6	.3	.0	.0	2.9	
.4	.0	.2	1.0	3.3	3.5	.9	.3	.1	.0	7.4	
1.3	.1	.6	1.6	6.4	4.3	1.1	.1	.1	.0	15.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.6	.0	.0	.5	.2	1.0	.4	.1	.1	.1	3.0	
.67	.4	.32	.90	.293	.254	.64	.25	.8	.7	599	1441
4.6	.3	2.2	6.2	20.3	17.6	4.4	1.7	.4	.5	41.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.9	.9	.9	.9	.9	.9
= OR >5000	1.9	2.3	2.5	2.5	2.6	2.6	2.6	2.6
= OR >3500	5.7	6.6	6.8	6.8	7.1	7.1	7.1	7.1
= OR >2000	19.1	23.9	24.5	24.5	24.7	24.7	24.7	24.7
= OR >1000	32.6	42.8	44.4	44.4	45.0	45.0	45.1	45.1
= OR >600	36.2	48.2	50.4	50.7	51.2	51.2	51.3	51.3
= OR >300	37.1	49.8	52.3	52.7	53.3	53.3	53.4	53.4
= OR >150	37.3	50.0	52.6	53.0	53.6	53.8	53.8	53.8
= OR >0	37.6	51.4	54.3	55.2	57.0	58.1	58.5	58.5
TOTAL	544	744	786	799	825	841	847	847

TOTAL NUMBER OF OBS: 1447

PCT FREQ NM <5/8: 41.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	6.9	9.9	7.4	6.5	6.7	9.1	10.0	28.5	1511

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1857-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 126.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.1	.1	.2	.0	.1	.6	.0	.0	1.4	
	TOT %	.2	.0	.1	.2	.2	.1	.1	.6	.0	.0	1.6	
1/2<1	PCP	.0	.0	.1	.4	.3	.4	.2	.1	.0	.0	1.4	
	NO PCP	.1	.0	.1	.4	.3	.1	.4	.4	.0	.1	1.8	
	TOT %	.1	.0	.2	.8	.6	.5	.5	.4	.0	.1	3.2	
1<2	PCP	.1	.0	.1	.2	.2	.1	.1	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.2	.2	.0	.0	.7	
	TOT %	.1	.1	.2	.3	.4	.1	.4	.3	.0	.0	1.7	
2<5	PCP	.1	.0	.2	.5	.4	.3	.1	.2	.0	.0	1.7	
	NO PCP	.0	.0	.1	.2	.2	.1	.1	.3	.0	.1	1.3	
	TOT %	.1	.1	.4	.8	.6	.4	.2	.5	.0	.1	3.0	
5<10	PCP	.1	.2	.6	1.7	1.7	1.1	1.2	.4	.0	.0	7.0	
	NO PCP	1.1	.5	.9	1.9	2.3	2.9	3.9	5.8	.0	.7	19.9	
	TOT %	1.2	.7	1.4	3.6	3.9	4.0	5.2	6.2	.0	.7	26.9	
10+	PCP	.0	.1	.2	.3	.6	.2	.3	.2	.0	.0	1.9	
	NO PCP	6.0	1.4	2.6	4.5	5.6	6.0	12.0	20.0	.0	3.7	61.8	
	TOT %	6.0	1.5	2.8	4.8	6.1	6.2	12.3	20.3	.0	3.7	63.7	
TOT OBS													2621
TOT PCT		7.6	2.4	5.1	10.3	11.8	11.2	18.6	28.3	.0	4.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	4-10	.1	.0	.0	.1	.1	.0	.1	.2	.0	.0	.7	
	11-21	.1	.0	.0	.0	.1	.1	.0	.3	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.1	.2	.3	.1	.1	.6	.0	.0	1.6	
1/2<1	0-3	.0	.0	.1	.1	.1	.2	.2	.1	.0	.1	.8	
	4-10	.1	.0	.1	.4	.2	.1	.2	.2	.0	.0	1.4	
	11-21	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	TOT %	.1	.0	.2	.7	.6	.5	.5	.4	.0	.1	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.0	.1	.0	.2	.2	.0	.0	.8	
	11-21	.0	.0	.0	.2	.2	.0	.1	.1	.0	.0	.7	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.1	.4	.4	.1	.4	.3	.0	.0	1.9	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.0	.1	.2	.2	.1	.2	.3	.0	.0	1.3	
	11-21	.0	.0	.0	.2	.2	.2	.1	.3	.0	.0	1.1	
	22+	.0	.0	.2	.4	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.1	.1	.4	.8	.7	.4	.3	.6	.0	.1	3.5	
5<10	0-3	.3	.1	.2	.1	.1	.7	.5	.3	.0	.7	3.0	
	4-10	.6	.5	.5	1.6	1.2	1.9	2.2	1.9	.0	.0	10.4	
	11-21	.2	.1	.6	1.3	1.8	1.1	1.8	2.8	.0	.0	9.7	
	22+	.1	.0	.1	.5	.6	.2	.6	1.2	.0	.0	3.3	
	TOT %	1.1	.7	1.4	3.5	3.8	3.9	5.1	6.1	.0	.7	26.4	
10+	0-3	.6	.4	.4	.3	.6	.7	.7	.7	.0	3.7	7.8	
	4-10	3.1	.9	1.7	2.0	2.9	3.4	5.8	6.4	.0	.0	26.2	
	11-21	2.0	.3	.6	2.0	2.4	1.9	5.2	9.1	.0	.0	23.4	
	22+	.3	.0	.1	.6	.6	.2	.6	3.9	.0	.0	6.2	
	TOT %	5.9	1.6	2.8	4.8	6.1	6.2	12.3	20.1	.0	3.7	63.6	
TOT OBS													2676
TOT PCT		7.6	2.4	5.1	10.4	11.9	11.2	18.6	28.2	.0	4.6	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1857-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 120.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NM <5/8 ANY HGT	TOTAL OBS
00003	3.0	.2	1.2	5.7	19.3	13.9	5.4	2.7	.0	.5	52.0	48.0	404
06009	4.7	.3	2.2	5.6	19.9	20.5	4.7	1.2	.0	.3	59.3	40.7	322
12015	6.2	.3	2.1	7.2	23.9	18.2	2.9	2.4	.3	.3	63.8	36.2	373
18021	4.8	.3	3.5	5.9	16.8	17.6	4.5	.3	1.3	.8	55.7	44.3	375
TOT	68	4	33	90	294	256	65	25	6	7	848	626	1474
PCT	4.6	.3	2.2	6.1	19.9	17.4	4.4	1.7	.4	.5	57.5	42.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	4.1	1.1	2.3	25.3	66.3	707
06009	1.5	3.4	2.1	2.9	32.0	58.1	585
12015	1.6	4.0	2.0	4.0	30.3	58.2	759
18021	2.3	3.0	2.3	4.5	21.5	66.5	710
TOT	43	100	51	95	749	1723	2761
PCT	1.6	3.6	1.8	3.4	27.1	62.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.0	5.5	12.2	40.1	47.6	401
06009	4.8	7.3	16.5	44.8	38.7	315
12015	6.3	9.3	18.6	46.8	34.5	365
18021	4.9	9.6	17.5	39.9	42.6	366
TOT	68	114	233	619	595	1447
PCT	4.7	7.9	16.1	42.8	41.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.3	.1	.1	.1	10	.6
60/64	.0	.0	.0	.1	.8	.3	.3	.5	30	1.9
55/59	.0	.0	.2	.4	1.8	2.7	3.9	1.9	176	11.0
50/54	.0	.0	.0	.4	3.8	9.7	20.2	17.7	826	51.7
45/49	.0	.0	.0	.3	2.1	8.3	13.0	10.0	537	33.6
40/44	.0	.0	.0	.0	.1	.1	.5	.4	18	1.1
TOTAL	0	0	3	21	140	338	605	490	1597	100.0
PCT	.0	.0	.2	1.3	8.8	21.2	37.9	30.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.1	.1	.0	.0	.0	.2	.0	.1
.1	.1	.1	.1	.2	.3	.3	.5	.0	.1
1.2	.4	.5	.8	1.5	1.1	1.8	2.7	.0	.9
3.9	1.3	2.8	5.6	6.6	5.8	8.6	14.4	.0	2.8
2.5	.4	1.1	2.8	2.7	3.1	7.2	11.7	.0	2.2
.1	.0	.1	.0	.4	.1	.3	.2	.0	.0
7.8	2.2	4.9	9.4	11.4	10.4	18.1	29.7	.0	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	63	59	52	47	45	42	52.4	719
06009	65	60	55	50	46	44	41	50.2	598
12015	65	57	54	50	45	43	39	49.4	792
18021	67	64	58	51	46	43	41	51.6	733
TOT	68	62	57	50	46	44	39	50.9	2842

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	12.1	25.8	33.2	27.1	82	446		
06009	.0	.0	6.4	20.4	41.9	31.3	83	329		
12015	.0	.4	5.9	16.5	39.8	37.4	86	460		
18021	.0	3.5	9.8	21.2	37.5	28.0	83	397		
TOT	0	24	141	342	618	507	84	1632		

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1857-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 126.3W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.1	.2	8	.0	.3
11/13	.0	.0	*	.0	.0	.3	.3	.2	20	.0	.9
9/10	.0	.0	.1	*	.3	.4	.3	*	27	.0	1.2
7/8	.0	.0	.0	.2	.7	.7	*	.0	38	.1	1.5
6	.0	.0	*	.1	.9	.6	*	.0	40	.1	1.6
5	.0	.0	*	.5	1.4	.7	.1	.0	63	.1	2.6
4	.0	.0	.3	1.3	3.0	.5	*	.0	117	.3	4.7
3	.0	*	.2	2.7	2.7	.3	.0	.0	137	.4	5.5
2	.0	.0	.9	4.3	3.5	.5	*	.0	211	.6	8.6
1	.0	*	1.2	7.5	2.6	.2	.0	.0	263	.8	10.7
0	.0	.1	3.5	11.9	2.5	.1	.0	.0	414	1.0	17.0
-1	.0	*	3.4	8.3	2.0	*	.0	.0	314	.5	13.2
-2	.0	.1	5.3	6.2	.8	*	.0	.0	286	.7	11.8
-3	.0	.1	3.7	2.9	.5	.0	.0	.0	166	.3	7.0
-4	.0	.3	2.5	1.7	.1	*	.0	.0	108	.2	4.5
-5	.0	.1	.9	.6	.0	.0	.0	.0	36	.1	1.4
-6	.0	.1	.4	.1	*	.0	.0	.0	15	.0	.7
-7/-8	.0	.2	.4	.1	.0	.0	.0	.0	15	*	.6
-9/-10	.0	*	.2	.1	.0	.0	.0	.0	8	.1	.2
-11/-13	*	.1	.1	*	.0	.0	.0	.0	6	.0	.3
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1		532		483		23		2295	127	2168
PCT	*	30	1111		104		11		100.0	5.5	94.5
		1.3	23.2	48.4	21.0	4.5	1.0	.5			

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	2.8	.0	.0	.0	.0	3.4	.5	.7	.0	.0	.0	.0	1.2
1-2	.1	1.5	.3	.0	.0	.0	1.9	.0	*	.0	.0	.0	.0	*
3-4	.1	2.4	.8	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.3	.7	.3	.0	.0	1.4	.0	.0	*	.0	.0	.0	*
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.1	2.0	.7	.1	.0	10.7	.5	.7	*	.0	.0	.0	1.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	1.1	.1	.0	.0	.0	1.4	.1	2.3	.0	.0	.0	.0	2.4
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.5	1.0	.0	.0	.0	1.5
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.9	1.1	.0	.0	.0	2.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.1	.0	.4
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.3	*	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	1.1	.0	.0	.0	2.8	.1	3.7	2.4	.5	.2	.0	6.8

PERIOD: (OVER-ALL) 1963-1973

MAY

AREA 0041 VANCOUVER IS. SW
48.5N 126.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.9	.0	.0	.0	.0		2.3	.6	1.2	.2	.0	.0	.0		2.0
1-2	.0	1.9	.3	.0	.0	.0		2.3	.0	2.5	.6	.0	.0	.0		3.2
3-4	.0	.8	2.2	.2	.0	.0		3.2	.0	.7	.6	.2	.0	.0		1.5
5-6	.0	.0	.9	.0	.1	.0		1.1	.0	.2	.7	.0	.0	.0		.9
7	.0	.1	.4	.2	.2	.0		.9	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.2	.0	.0	.0		.2	.0	.0	.1	.0	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	4.8	4.0	.5	.3	.0		10.0	.7	4.6	2.3	.2	.0	.0		7.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	2.8	.1	.0	.0	.0		3.1	.8	4.1	.5	.0	.0	.0		5.4	
1-2	.1	2.8	1.4	.0	.0	.0		4.2	.2	4.2	2.5	.0	.0	.0		7.0	
3-4	.0	1.8	3.0	.2	.0	.0		5.1	.0	2.2	6.3	.2	.0	.0		8.6	
5-6	.0	.3	1.8	.0	.0	.0		2.2	.0	.5	4.0	1.4	.0	.0		6.0	
7	.0	.1	.5	.2	.0	.0		.8	.0	.0	2.0	1.5	.1	.0		3.6	
8-9	.0	.0	.1	.2	.0	.0		.3	.0	.0	.9	1.0	.2	.0		2.1	
10-11	.0	.0	.0	.4	.0	.0		.4	.0	.0	.1	.9	.0	.0		1.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.1	.0		.4	
13-16	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.4	.2	.0		.6	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	7.9	7.0	1.0	.0	.0		16.2	1.1	11.0	16.3	5.6	.9	.0		34.9	90.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.0	16.9	.9	.0	.0	.0	30.8	
1-2	.6	13.8	6.3	.0	.0	.0	20.8	
3-4	.1	8.9	14.2	.7	.0	.0	24.0	
5-6	.0	1.4	8.9	1.7	.2	.0	12.2	
7	.0	.2	3.3	2.3	.4	.0	6.3	
8-9	.0	.0	1.0	1.4	.2	.0	2.6	
10-11	.0	.0	.4	1.5	.1	.0	2.0	
12	.0	.0	.0	.4	.1	.0	.5	
13-16	.0	.0	.1	.4	.2	.0	.7	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	41.3	35.1	8.4	1.5	.0	100.0	809

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.7	12.2	18.2	8.8	2.9	.8	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	649	4
6-7	.0	2.0	6.3	5.9	4.4	2.0	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	320	5
8-9	.0	1.1	3.9	5.4	3.7	1.8	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	291	6
10-11	.0	.4	1.1	1.1	.6	.2	.2	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
12-13	.0	.0	.6	.5	.1	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
>13	.0	.0	.0	.1	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDEX	3.3	1.0	1.5	.6	.6	.5	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	3
TOTAL	71	237	492	319	178	77	41	17	27	2	0	0	0	0	0	0	0	0	0	1421	4
PCT	5.0	16.7	31.8	22.4	12.5	5.4	2.9	1.2	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1861-1973

JUNE

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	1.7	.0	.0	.0	.0	.0	1.7	.5	.0	9.6	.0	.0	.0
NE	1.9	1.0	4.3	.0	.0	.0	.0	7.2	1.0	.0	6.7	.0	3.8	.0
E	4.3	.6	10.0	.0	.0	.0	.0	14.9	2.6	.0	11.7	.0	1.1	.0
SE	12.1	2.0	14.1	.0	.0	.0	.0	27.7	2.4	.0	10.5	.3	.5	.0
S	7.7	2.5	14.3	.0	.0	.0	.0	22.8	3.4	.0	10.5	.7	.6	.0
SW	3.1	1.3	9.2	.0	.0	.0	.0	12.6	1.6	.5	6.7	.5	1.3	.0
W	2.7	1.5	3.8	.0	.0	.0	.0	7.8	1.4	.0	6.4	.3	.7	.0
NW	1.2	.6	2.3	.0	.0	.0	.0	4.0	.9	.0	4.8	.2	1.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.9	2.6	.0	.0	.0	.0	5.2	2.6	.0	11.3	.0	2.6	.0
TOT PCT	3.3	1.3	5.6	.0	.0	.0	.0	9.9	1.6	*	7.3	.3	1.0	.0
TOT OBS	2284													80.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000	2.9	1.0	4.5	.0	.0	.0	.0	7.9	1.4	.0	7.2	.3	1.3	.0
0600	3.7	.6	3.3	.0	.0	.0	.0	9.1	1.8	.2	7.3	.0	.6	.0
1200	4.0	2.3	6.5	.0	.0	.0	.0	12.6	1.7	.0	8.1	.2	.6	.0
1800	2.8	1.2	6.0	.0	.0	.0	.0	9.6	1.2	.0	9.8	.5	1.5	.0
TOT PCT	3.3	1.3	5.6	.0	.0	.0	.0	9.9	1.5	*	8.1	.3	1.0	.0
TOT OBS	2369													79.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.1	2.8	2.3	.3	.1	.0		6.6	10.2	6.2	5.2	7.2	4.6	7.3	7.9	6.4	7.0		
NE	.6	1.3	.4	.0	.0	.0		2.3	6.5	1.6	2.6	3.0	.8	2.4	2.6	2.8	2.2		
E	.5	2.3	.7	.1	.0	.0		3.7	8.2	2.9	1.3	4.3	3.4	3.6	6.3	3.7	3.8		
SE	1.0	4.2	2.4	.5	.1	.0		8.2	10.6	8.9	4.5	6.3	4.5	8.4	10.2	10.1	9.3		
S	.9	4.7	3.3	.6	*	.0		9.5	10.7	10.8	9.7	8.1	8.7	8.8	7.7	11.9	8.7		
SW	.7	6.4	2.1	.1	.0	.0		9.3	8.5	8.5	13.4	7.0	10.1	8.4	11.5	7.6	11.8		
W	1.8	12.6	7.5	1.0	.0	.0		22.9	10.0	21.6	28.8	23.2	33.0	23.3	20.9	18.2	21.4		
NW	1.7	12.5	14.5	3.2	.3	.0		32.2	13.0	35.7	30.0	36.0	30.9	30.2	26.4	23.9	30.0		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.4							5.4	.0	3.8	4.5	4.9	3.9	7.5	6.4	5.3	5.8		
TOT OBS	334	1146	809	143	12	0	2444		10.3	445	199	328	178	424	233	396	241		
TOT PCT	13.7	46.9	33.1	5.9	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.4	3.0	1.0	.2	.0			6.6	10.2	5.9	6.3	7.5	6.6
NE	1.5	.7	.1	.0	.0			2.3	6.5	1.9	2.2	2.5	2.6
E	1.5	1.9	.3	.0	.0			3.7	8.2	2.4	4.0	4.6	3.8
SE	2.4	4.2	1.4	.1	.0			8.2	10.6	7.6	5.7	9.0	9.8
S	3.0	5.0	1.4	.2	.0			9.5	10.7	10.4	8.3	8.4	10.7
SW	3.6	5.2	.5	.0	.0			9.3	8.5	10.0	8.1	9.5	9.2
W	6.9	13.3	2.5	.2	.0			22.9	10.0	23.8	26.7	22.5	19.4
NW	6.1	16.7	8.1	1.2	*			32.2	13.0	34.0	34.2	28.8	32.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	4.0	4.5	7.2	5.5
TOT OBS	801	1220	374	48	1	2444		10.3		644	506	657	637
TOT PCT	32.8	49.9	15.3	2.0	*			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1861-1973

JUNE

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	4.0	6.1	44.9	37.0	7.1	.9	.0	11.1	100.0	644
0600Z	4.5	7.3	46.6	36.2	4.9	.4	.0	10.6	100.0	506
1200Z	7.2	10.0	48.9	29.4	4.6	.0	.0	9.2	100.0	657
1800Z	5.5	9.6	47.1	30.6	6.6	.6	.0	10.2	100.0	637
TOT	131	203	1146	809	143	12	0	10.3		2444
PCT	5.4	8.3	46.9	33.1	5.9	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.8	1.5	2.3		4.7
NE	.4	.3	.6	.4		4.9
E	.1	.1	.9	1.8		7.0
SE	.7	.6	1.3	5.4		6.8
S	.2	.7	1.7	6.7		7.2
SW	.7	.8	2.6	3.9		6.3
W	3.0	2.3	7.2	9.5		6.0
NW	9.6	4.7	10.2	10.4		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.8	.9	2.8		5.6
TOT OBS	240	141	349	569	1299	5.7
TOT PCT	18.5	10.9	26.9	43.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.1	.2	1.2	1.3	.1	.0	.0	.0	3.8	
NE	.4	.0	.0	.1	.7	.3	.0	.0	.0	.0	1.0	
E	.2	.0	.0	.3	.8	.7	.2	.2	.0	.0	.6	
SE	.8	.3	.3	1.0	1.7	1.0	.9	.3	.0	.0	1.8	
S	.6	.1	.2	1.1	2.6	1.4	1.0	.2	.0	.1	2.0	
SW	.4	.0	.4	.5	1.6	1.7	.4	.1	.0	.1	2.6	
W	.6	.1	.6	1.7	4.0	5.2	1.4	.6	.1	.0	7.7	
NW	1.1	.1	.3	1.9	6.1	5.7	1.2	.4	.1	.2	17.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.2	.2	.3	.8	1.1	.3	.0	.0	.0	2.2	
TOT OBS	59	13	27	91	254	240	72	25	3	6	509	1299
TOT PCT	4.5	1.0	2.1	7.0	19.6	18.5	5.5	1.9	.2	.5	39.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
= OR >5000	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	6.8	7.8	8.1	8.1	8.1	8.1	8.1	8.1
= OR >2000	18.9	25.0	26.0	26.3	26.4	26.5	26.5	26.5
= OR >1000	30.9	42.8	45.0	45.4	45.6	45.7	45.7	45.7
= OR >600	35.2	49.1	51.6	52.2	52.4	52.5	52.7	52.7
= OR >300	35.9	50.7	53.4	54.2	54.4	54.5	54.7	54.7
= OR >150	36.1	51.2	54.1	55.0	55.3	55.3	55.7	55.7
= OR >0	36.3	51.6	55.1	56.7	58.0	59.1	60.4	61.0
TOTAL	477	678	724	745	762	776	794	801

TOTAL NUMBER OF OBS: 1314

PCT FREQ NH <5/8: 39.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	9.7	7.3	9.5	6.5	5.1	5.2	8.8	10.8	32.6	4.5	1416

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1861-1973

JUNE

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.1	*	.0	.0	*	.4	
	NO PCP	.2	*	.2	.3	.3	.1	.5	.5	.0	.2	2.3	
	TOT %	.2	*	.2	.4	.5	.2	.5	.5	.0	.2	2.7	
1/2<1	PCP	.0	*	*	.1	.1	*	.1	.0	.0	.0	.4	
	NO PCP	.1	*	.1	.2	.3	.2	.2	.4	.0	.2	1.8	
	TOT %	.1	.1	.1	.3	.5	.2	.3	.4	.0	.2	2.2	
1<2	PCP	.0	*	.0	.4	.3	*	.2	.1	.0	.0	1.0	
	NO PCP	.1	.0	.0	.1	.0	*	.1	.2	.0	.0	.5	
	TOT %	.1	*	.0	.5	.3	.1	.3	.2	.0	.0	1.4	
2<5	PCP	.0	.0	.2	.5	.5	.2	.2	.2	.0	.1	1.8	
	NO PCP	.1	.1	.2	.2	.2	.5	.6	.4	.0	.2	2.3	
	TOT %	.1	.1	.4	.7	.7	.7	.8	.7	.0	.3	4.4	
5<10	PCP	*	*	.3	1.0	.8	.5	.9	.8	.0	*	4.4	
	NO PCP	1.5	.4	.7	1.9	2.0	2.6	5.7	6.5	.0	.9	22.2	
	TOT %	1.9	.5	1.0	2.9	2.8	3.2	6.6	7.3	.0	.9	26.6	
10+	PCP	.1	*	*	.3	.4	.2	.4	.2	.0	.1	1.8	
	NO PCP	4.4	1.6	2.1	3.3	4.4	4.8	14.1	22.8	.0	3.4	60.9	
	TOT %	4.9	1.6	2.1	3.6	4.9	5.0	14.5	23.1	.0	3.5	62.7	
TOT OBS		6.5	2.3	3.8	8.3	9.6	9.3	23.0	32.2	.0	5.1	100.0	2276
TOT PCT		6.5	2.3	3.8	8.3	9.6	9.3	23.0	32.2	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	*	*	.0	.1	.0	.0	.2	.5	
	4-10	.1	*	.2	.3	.4	.2	.4	.3	.0		1.8	
	11-21	*	.0	.0	.0	*	.0	.1	.2	.0		.4	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.2	*	.2	.4	.4	.2	.6	.5	.0	.2	2.8	
1/2<1	0-3	.1	*	*	.1	*	.0	*	*	.0	.2	.5	
	4-10	*	*	.1	.1	.2	.1	.2	.2	.0		.9	
	11-21	*	.0	.0	.1	.1	.1	.0	.2	.0		.5	
	22+	.0	.0	.0	*	.2	.0	.0	.0	.0		.2	
	TOT %	.1	.1	.1	.3	.4	.2	.3	.4	.0	.2	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.1	.0	*	.2	
	4-10	.1	*	.0	.2	.1	.1	.3	*	.0		.8	
	11-21	.0	.0	.0	.2	.1	*	.1	.2	.0		.7	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	.1	*	.0	.5	.3	.1	.5	.3	.0	*	1.8	
2<5	0-3	.0	*	.1	*	*	.1	.1	.0	.0	.3	.6	
	4-10	*	.0	.2	.2	.1	.3	.5	.3	.0		1.7	
	11-21	.1	*	.1	.4	.4	.3	.2	.4	.0		1.8	
	22+	.0	.0	*	.1	.1	*	.0	*	.0		.4	
	TOT %	.1	.1	.4	.7	.7	.7	.8	.7	.0	.3	4.5	
5<10	0-3	.3	.1	.2	.2	.2	.4	.6	.3	.0	1.0	3.5	
	4-10	.6	.3	.4	1.4	1.2	2.0	3.6	2.5	.0		12.0	
	11-21	.6	.1	.3	.9	1.1	.7	2.0	3.4	.0		9.1	
	22+	*	.0	*	.2	.2	.1	.3	.8	.0		1.7	
	TOT %	1.5	.4	1.0	2.8	2.7	3.1	6.4	7.3	.0	1.0	26.3	
10+	0-3	.7	.4	.2	.6	.5	.2	.9	.9	.0	3.5	7.8	
	4-10	1.7	.9	1.6	2.2	2.6	3.8	7.7	9.0	.0		29.6	
	11-21	1.7	.3	.3	.8	1.7	.9	5.1	10.5	.0		21.3	
	22+	.3	.0	.0	*	.1	*	.7	2.6	.0		3.8	
	TOT %	4.5	1.5	2.1	3.6	4.9	4.9	14.3	23.1	.0	3.5	62.5	
TOT OBS		6.5	2.2	3.8	8.3	9.5	9.3	22.9	32.3	.0	5.2	100.0	2945
TOT PCT		6.5	2.2	3.8	8.3	9.5	9.3	22.9	32.3	.0	5.2	100.0	

JUNE

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1861-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	4.4	.8	.8	4.4	16.9	17.7	7.6	1.8	.0	.3	54.7	45.3	384
06009	3.0	.0	2.3	5.7	19.4	21.1	5.0	2.3	.3	.3	59.5	40.5	299
12015	5.3	1.2	2.7	10.6	19.8	17.1	3.2	1.8	.0	.6	62.2	37.8	339
18021	8.0	1.9	2.5	6.5	19.8	17.0	5.6	1.5	.6	.6	63.9	36.1	324
TOT	70	13	27	91	254	244	73	25	3	6	806	540	1346
PCT	5.2	1.0	2.0	6.8	18.9	18.1	5.4	1.9	.2	.4	59.9	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.6	1.9	1.4	4.5	24.4	64.3	644
06009	2.2	2.0	1.4	3.7	29.2	61.5	507
12015	2.0	2.3	2.6	5.9	28.5	58.8	663
18021	4.7	3.1	2.1	4.1	26.0	60.1	616
TOT	76	56	46	112	654	1486	2430
PCT	3.1	2.3	1.9	4.6	26.9	61.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	4.6	7.2	13.9	42.6	43.4	373
06009	3.1	5.5	13.5	47.4	39.1	289
12015	5.4	9.6	24.9	38.9	30.2	334
18021	7.9	13.2	22.6	42.8	34.6	318
TOT	69	117	246	362	306	1314
PCT	5.3	8.9	18.7	42.8	38.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.1	.0	.0	.1	5	.3
65/69	.0	.0	.1	.3	.4	.4	.4	.3	27	1.8
60/64	.0	.0	.1	.4	1.1	2.8	2.2	.8	111	7.4
55/59	.0	.0	.1	.2	1.6	7.9	13.3	8.3	476	31.5
50/54	.0	.0	.0	.1	1.0	7.9	24.0	22.6	841	55.7
45/49	.0	.0	.0	.0	.1	.2	.9	2.1	49	3.2
40/44	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	4	18	64	291	617	516	1510	100.0
PCT	.0	.0	.3	1.2	4.2	19.3	40.9	34.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.1	.0	.0	.0	.1	.0	.1	.0	.1
65/69	.3	.1	.1	.2	.1	.1	.2	.5	.0	.3
60/64	.7	.4	.3	.5	.5	.7	1.1	2.8	.0	.2
55/59	2.5	1.0	.4	2.0	3.7	3.2	6.3	11.1	.0	1.2
50/54	3.3	1.4	2.5	4.6	4.4	5.4	14.3	16.5	.0	3.2
45/49	.2	.1	.1	.3	.9	.4	.4	.8	.0	.1
40/44	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	7.1	2.8	3.4	7.6	9.6	10.0	22.6	31.7	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	70	64	55	50	48	46	55.9	657
06009	64	61	59	53	50	48	46	53.5	518
12015	66	63	58	52	49	46	42	52.9	679
18021	73	66	62	55	50	48	40	55.4	644
TOT	73	66	61	54	50	47	40	54.5	2498

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.3	6.0	27.2	39.5	24.9	83	430		
06009	.0	1.0	2.6	16.1	41.8	38.5	87	304		
12015	.0	.9	2.0	10.3	40.9	45.8	88	445		
18021	.0	1.4	5.8	22.7	40.3	29.8	84	362		
TOT	0	22	64	294	625	536	86	1541		

JUNE

PERIOD: (PRIMARY) 1935-1973
(OVER-ALL) 1861-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.3	.1	.0	10	.0	.4
11/13	.0	.0	.0	*	.2	.8	.4	.1	.0	32	.0	1.5
9/10	.0	.0	.0	.3	.3	.6	.2	.0	.0	29	.1	1.3
7/8	.0	.0	.2	.2	1.4	.7	.1	.0	.0	54	.1	2.5
6	.0	.0	.1	.6	1.1	.5	*	.0	.0	48	.2	2.1
5	.0	.0	.1	1.5	1.4	.9	*	.0	.0	83	.3	3.7
4	.0	*	.6	3.6	2.1	.6	.0	.0	.0	144	.6	6.4
3	.0	.0	.7	3.4	1.7	.2	.0	.0	.0	126	.2	5.8
2	.0	.0	2.4	6.0	2.7	.3	.0	.0	.0	238	.9	10.6
1	.0	.0	2.8	6.6	1.4	*	.0	.0	.0	226	.9	10.0
0	.0	.4	7.5	7.5	1.7	.2	.0	.0	.0	359	1.5	15.8
-1	.0	.1	5.3	5.5	.7	.0	.0	.0	.0	241	.9	10.7
-2	.0	.3	3.5	4.1	.4	.0	.0	.0	.0	171	.8	7.5
-3	.0	.2	2.5	2.1	.2	.0	.0	.0	.0	103	.5	4.5
-4	.0	.6	1.7	1.9	.1	*	.0	.0	.0	89	.5	3.8
-5	.0	.3	1.4	.8	.1	.0	.0	.0	.0	55	.1	2.6
-6	.0	.1	.6	.1	.0	.0	.0	.0	.0	16	.1	.7
-7/-8	*	.3	.8	.3	.0	*	.0	.0	.0	32	*	1.5
-9/-10	.0	.1	.2	*	.0	.0	.0	.0	.0	7	*	.3
-11/-13	.0	.0	.1	*	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	*	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	55	634	925	320	103	26	7	1	2073	164	1909
PCT	.1	2.7	30.6	44.6	15.4	5.0	1.3	.3	*	100.0	7.9	92.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	1.1	.1	.0	.0	.0	2.1	.6	1.3	*	.0	.0	.0	1.9
1-2	.3	1.4	.5	.0	.0	.0	2.2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.9	1.0	.1	.0	.0	1.9	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.1	.7	.0	.0	.0	.8	.0	*	.1	.0	.0	.0	.2
7	.0	.0	.4	.2	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.5	2.8	.3	.1	.0	7.9	.6	2.0	.6	.0	.0	.0	3.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.1	.0	.0	.0	.9	.6	1.8	.1	.0	.0	.0	2.6
1-2	.0	.9	.1	.0	.0	.0	1.0	.0	1.5	1.0	.0	.0	.0	2.5
3-4	.0	.4	.1	.0	.0	.0	.5	.0	.5	1.2	.3	.0	.0	2.0
5-6	.0	.1	.3	.0	.0	.0	.3	.0	.1	.6	.2	.0	.0	.9
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.4	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.1	.0	*	*	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	.8	.1	.0	.0	3.1	.8	4.0	3.2	1.0	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0041 VANCOUVER IS. SW
48.5N 120.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4	.4	2.2	.1	.0	.0	.0	2.3
1-2	.1	2.6	1.7	.0	.0	.0	4.4	.0	2.9	.4	.0	.0	.0	3.2
3-4	.0	.3	1.8	.3	.0	.0	2.3	.0	.9	.7	.0	.0	.0	1.6
5-6	.0	.1	.2	.3	.0	.0	.7	.0	.2	.3	.0	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.2
8-9	.0	.1	.3	.1	.0	.0	.6	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	4.4	.9	.0	.0	9.9	.1	6.4	1.8	.0	.0	.0	8.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	2.0	.0	.0	.0	.0	2.6	.3	2.9	.3	.0	.0	.0	3.5	
1-2	.4	3.7	1.5	.0	.0	.0	5.3	.3	4.1	2.9	.0	.0	.0	7.2	
3-4	.1	3.4	4.0	.4	.0	.0	7.9	.3	3.9	7.2	.8	.0	.0	12.1	
5-6	.0	1.1	.7	.0	.0	.0	1.7	.0	.9	3.2	.6	.0	.0	4.7	
7	.0	.4	.3	.4	.0	.0	1.3	.0	.0	2.4	.7	.1	.0	3.2	
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.1	.3	.3	.0	.0	.9	
10-11	.0	.1	.1	.0	.0	.0	.2	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.2	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	10.7	6.8	.9	.0	.0	19.5	.9	12.1	16.7	3.2	.4	.0	33.2	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	9.6	13.1	.8	.0	.0	.0	23.5	UBS
1-2	1.1	17.4	8.2	.0	.0	.0	26.7	
3-4	.5	10.6	16.1	1.9	.0	.0	29.1	
5-6	.0	2.6	6.1	1.1	.0	.0	9.8	
7	.0	.3	4.2	1.8	.1	.0	6.6	
8-9	.0	.4	.9	.6	.0	.0	1.9	
10-11	.1	.1	.6	.6	.0	.0	1.3	
12	.0	.0	.0	.4	.3	.0	.6	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	44.9	36.8	6.4	.3	.0	100.0	793

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	9.8	14.0	6.0	3.0	1.0	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	4
6-7	.1	1.4	7.2	8.8	5.1	2.1	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	398	5
8-9	.0	.4	6.4	3.8	4.4	2.9	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	5
10-11	.0	.4	1.3	1.0	.3	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	6
12-13	.0	.0	.3	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
>13	.0	.0	.0	.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	2.9	.8	1.3	.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
TOTAL	61	215	416	306	194	96	44	19	7	3	0	0	0	0	0	0	0	0	0	1361	5
PCT	4.5	15.6	30.6	22.5	14.3	7.1	3.2	1.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

JULY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.7	.0	1.3	.0	.0	.0	.0	2.0	.0	.0	11.1	.0	1.4	.0	85.3
NE	4.8	1.2	2.4	.0	.0	.0	.0	8.3	4.8	.0	21.4	.0	1.2	.0	64.3
E	17.8	4.9	5.1	.0	.0	.0	.0	27.3	.5	.0	13.5	.0	.5	.0	58.1
SE	17.6	3.2	10.1	.0	.0	.0	.0	29.9	2.6	.0	17.4	.0	.1	.0	50.1
S	11.2	3.2	9.9	.0	.0	.0	.0	23.7	1.5	.0	15.6	1.1	1.6	.0	56.6
SW	5.9	3.4	2.8	.0	.0	.0	.0	11.4	1.3	.0	13.4	.9	1.1	.0	71.9
W	1.4	.9	3.7	.0	.0	.0	.0	5.5	.7	.0	12.0	.5	1.4	.0	79.8
NW	.7	.1	2.1	.0	.0	.0	.0	2.9	.4	.0	9.8	.4	1.2	.0	85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.9	1.3	.0	.0	.0	.0	3.1	.9	.0	17.0	.4	2.2	.0	76.2
TOT PCT	3.8	1.2	3.7	.0	.0	.0	.0	8.3	.8	.0	12.4	.5	1.3	.0	76.7
TOT OBS:	3227														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.9	1.2	2.3	.0	.0	.0	.0	7.7	.6	.0	9.7	.3	1.9	.0	79.8
06009	2.8	1.4	3.6	.0	.0	.0	.0	7.8	.5	.0	10.7	.5	1.2	.0	79.2
12015	4.4	1.6	5.6	.0	.0	.0	.0	11.4	1.0	.0	14.6	.1	.6	.0	72.2
18021	3.8	1.4	2.6	.0	.0	.0	.0	7.5	1.0	.0	13.8	.9	1.2	.0	75.7
TOT PCT	4.1	1.4	3.6	.0	.0	.0	.0	8.7	.8	.0	12.3	.4	1.2	.0	76.5
TOT OBS:	3406														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.1	2.7	.6	.0	.0		7.1	11.2		6.9	5.4	7.0	5.8	7.8	8.7	8.3	4.7
NE	.3	.7	.2	.0	.0	.0		1.2	7.1		1.2	1.1	.6	2.1	1.9	1.4	.9	.8
E	.6	1.4	.7	.1	.0	.0		2.8	8.0		2.3	2.5	1.7	2.7	3.4	5.1	2.3	3.8
SE	.9	3.5	2.2	.5	.0	.0		7.2	10.1		6.6	5.5	4.8	5.0	6.2	10.6	9.1	10.7
S	.7	3.8	2.4	.4	.1	.0		7.4	10.4		7.7	7.4	5.8	4.3	6.5	10.0	8.2	9.6
SW	1.1	4.6	1.9	.2	.0	.0		7.8	8.5		8.2	9.6	5.6	6.4	7.0	11.9	6.0	11.8
W	1.6	11.5	8.1	1.1	.0	.0		22.3	10.5		20.1	34.4	23.0	34.8	19.3	20.0	16.3	25.5
NW	1.4	14.6	10.0	4.6	.1	.0		36.8	13.1		40.1	29.4	44.5	33.8	37.8	24.9	39.8	29.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4							7.4	.0		6.9	4.8	7.0	5.0	10.0	7.6	9.1	3.9
TOT OBS	903	1468	1158	252	9	0	3390		10.4		408	270	502	219	650	291	571	279
TOT PCT	14.8	49.3	34.2	7.4	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.4	3.1	1.5	.1	.0		7.1	11.2	6.4	6.6	8.1	7.1	
NE	.7	.5	.1	.0	.0		1.2	7.1	1.2	1.0	1.8	.9	
E	1.3	1.1	.2	.0	.0		2.8	8.0	2.3	2.0	3.9	2.8	
SE	2.8	3.1	1.1	.1	.0		7.2	10.1	6.2	4.9	7.5	9.6	
S	2.5	3.7	1.1	.1	.0		7.4	10.4	7.6	5.3	7.5	8.7	
SW	3.3	3.9	.6	.0	.0		7.8	8.5	8.6	5.8	8.5	7.9	
W	6.9	12.0	3.1	.3	.0		22.3	10.5	24.5	26.6	19.6	19.3	
NW	7.2	19.3	9.1	1.1	.0		36.8	13.1	36.8	41.3	33.8	36.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.4						7.4	.0	6.3	6.4	9.2	7.4	
TOT OBS	1178	1579	569	64	0	3390		10.4	878	721	941	850	
TOT PCT	34.7	46.6	16.8	1.9	.0		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973AREA 0041 VANCOUVER IS. SW
48.5N 120.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	6.3	5.2	44.0	35.3	9.0	.2	.0	11.1	100.0	878
00009	6.4	4.6	43.0	37.9	7.9	.3	.0	11.0	100.0	721
12015	9.2	9.2	43.1	31.5	6.6	.3	.0	9.8	100.0	941
18021	7.4	10.1	43.1	32.8	6.4	.2	.0	10.0	100.0	850
TOT	291	292	1468	1158	292	9	0	10.4		3390
PCT	7.4	7.4	43.3	34.2	7.4	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.9	1.5	2.2		4.3
NE	.3	.2	.1	.3		4.2
E	.2	.1	.6	1.2		6.6
SE	.5	.4	1.9	4.3		6.9
S	.6	.3	2.0	4.3		6.6
SW	1.1	.6	2.0	2.5		5.8
W	4.5	2.5	4.1	7.7		5.3
NW	14.6	6.0	9.2	11.8		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.0	2.0	2.9		4.9
TOT OBS	591	241	471	747	2010	5.1
TOT PCT	27.4	12.0	23.4	37.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NM <5/8 TOTAL OBS
N	.5	.0	.2	.5	.8	1.1	.3	.0	.0	.0	4.3
NE	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.6
E	.0	.0	.1	.2	.4	.3	.2	.0	.1	.0	.6
SE	1.1	.0	.2	.6	1.4	1.7	.4	.2	.0	.0	1.4
S	1.1	.1	.4	.7	1.4	1.0	.6	.3	.0	.0	1.8
SW	.4	.0	.2	.4	1.2	1.2	.2	.3	.0	.0	2.2
W	1.2	.1	.7	1.5	3.1	3.1	.4	.3	.1	.1	8.0
NW	2.5	.2	.7	2.3	4.8	6.3	1.0	.2	.2	.2	23.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.2	.1	.5	1.0	1.1	.4	.0	.0	.0	4.1
TOT OBS	158	14	54	136	287	320	70	27	9	8	927
TOT PCT	7.9	.7	2.7	6.8	14.3	15.9	3.5	1.3	.4	.4	46.1

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >4500	.4	.8	.9	.9	.9	.9	.9	.9
> OR >5000	1.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3
> OR >5500	4.0	5.6	5.7	5.7	5.7	5.7	5.8	5.8
> OR >6000	12.9	20.8	21.5	21.5	21.6	21.7	21.7	21.7
> OR >6500	20.8	33.2	34.7	35.2	35.3	35.7	35.8	35.8
> OR >7000	23.4	38.4	41.0	41.7	42.0	42.3	42.4	42.4
> OR >7500	24.1	40.1	43.2	44.2	44.6	45.0	45.1	45.1
> OR >8000	24.2	40.3	43.7	44.8	45.2	45.7	45.8	45.8
> OR >8500	24.3	40.8	44.3	45.9	47.9	50.4	53.3	53.8
TOTAL	492	826	900	930	970	1021	1079	1088

TOTAL NUMBER OF OBS: 2024

PCT FREQ NM <5/8: 46.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
16.0	9.0	9.8	6.6	4.5	3.1	7.7	9.2	25.1	7.1	2122

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

JULY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	.1	.1	.1	.1	.0	.0	.4	
	NO PCP	.4	.1	.1	.6	.6	.3	1.1	1.8	.0	.6	5.6	
	TOT %	.5	.1	.1	.8	.8	.3	1.2	1.9	.0	.6	6.1	
1/2<1	PCP	.0	.0	.0	.1	.1	.1	.1	.2	.0	.1	.7	
	NO PCP	.2	.1	.1	.3	.3	.4	.8	.7	.0	.2	3.0	
	TOT %	.2	.1	.1	.3	.4	.5	.9	.9	.0	.2	3.8	
1<2	PCP	.1	.0	.0	.2	.2	.1	.1	.1	.0	.0	.7	
	NO PCP	.1	.0	.1	.1	.1	.1	.2	.3	.0	.1	1.0	
	TOT %	.1	.0	.1	.3	.4	.2	.3	.4	.0	.1	1.8	
2<5	PCP	.0	.1	.1	.4	.4	.1	.3	.2	.0	.1	1.6	
	NO PCP	.1	.1	.1	.2	.2	.5	.7	.5	.0	.2	2.5	
	TOT %	.1	.1	.1	.6	.7	.6	1.0	.7	.0	.2	4.1	
5<10	PCP	.1	.1	.6	1.2	.7	.5	.5	.5	.0	.1	4.1	
	NO PCP	2.1	.5	.9	1.6	1.9	2.7	7.3	10.0	.0	2.0	28.9	
	TOT %	2.2	.6	1.5	2.7	2.6	3.2	7.8	10.4	.0	2.0	33.0	
10+	PCP	.1	.0	.1	.1	.2	.1	.1	.2	.0	.1	.8	
	NO PCP	4.3	.4	.9	2.2	2.6	2.9	10.5	22.8	.0	3.8	50.5	
	TOT %	4.3	.4	1.0	2.4	2.8	3.0	10.6	23.0	.0	3.8	51.3	
TOT OBS													3225
TOT PCT		7.3	1.3	2.9	7.2	7.4	7.8	21.9	37.3	.0	6.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.6	1.2	
	4-10	.2	.1	.1	.3	.2	.1	.8	1.1	.0	.1	2.6	
	11-21	.2	.1	.1	.2	.2	.1	.4	.7	.0	.1	1.8	
	22+	.0	.0	.0	.1	.1	.0	.1	.1	.0	.1	.3	
	TOT %	.5	.1	.1	.7	.6	.3	1.2	1.9	.0	.6	6.1	
1/2<1	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.2	.7	
	4-10	.1	.1	.1	.1	.2	.4	.6	.3	.0	.1	1.7	
	11-21	.1	.0	.0	.2	.2	.1	.2	.5	.0	.1	1.2	
	22+	.0	.0	.0	.1	.1	.0	.0	.1	.0	.1	.1	
	TOT %	.2	.1	.1	.4	.4	.5	.9	.9	.0	.2	3.7	
1<2	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.2	
	4-10	.1	.1	.1	.1	.2	.2	.3	.2	.0	.1	1.1	
	11-21	.1	.1	.1	.2	.1	.1	.1	.1	.0	.1	.5	
	22+	.0	.0	.0	.1	.1	.0	.1	.1	.0	.1	.3	
	TOT %	.1	.1	.1	.3	.4	.3	.5	.4	.0	.1	2.1	
2<5	0-3	.0	.1	.1	.1	.1	.1	.1	.1	.0	.2	.5	
	4-10	.1	.1	.1	.1	.3	.3	.7	.4	.0	.1	2.0	
	11-21	.1	.0	.1	.2	.3	.2	.3	.4	.0	.1	1.6	
	22+	.1	.1	.1	.2	.1	.1	.1	.1	.0	.1	.4	
	TOT %	.1	.1	.2	.6	.6	.6	1.1	.8	.0	.2	4.4	
5<10	0-3	.3	.1	.2	.3	.3	.4	.6	.5	.0	2.0	4.7	
	4-10	1.0	.4	.7	1.4	1.4	2.0	4.0	4.4	.0	.1	15.3	
	11-21	.7	.1	.5	.9	.7	.7	2.9	4.2	.0	.1	10.6	
	22+	.2	.0	.1	.2	.1	.1	.2	1.3	.0	.1	2.0	
	TOT %	2.1	.6	1.4	2.7	2.5	3.2	7.8	10.4	.0	2.0	32.6	
10+	0-3	.3	.1	.3	.4	.2	.3	.7	.6	.0	4.0	6.9	
	4-10	1.9	.2	.5	1.5	1.5	1.6	5.1	8.4	.0	.1	20.6	
	11-21	1.7	.1	.2	.5	.9	1.0	4.2	10.4	.0	.1	18.9	
	22+	.3	.1	.1	.1	.1	.1	.7	3.4	.0	.1	4.7	
	TOT %	4.2	.4	.9	2.4	2.8	3.0	10.6	22.7	.0	4.0	51.1	
TOT OBS													3286
TOT PCT		7.2	1.3	2.9	7.1	7.4	7.8	22.1	37.1	.0	7.1	100.0	

JULY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.7	.4	1.9	5.8	12.3	15.1	2.4	2.4	.4	.6	47.9	52.1	537
06009	7.6	.8	2.7	6.0	12.6	13.4	2.1	.6	.6	.6	47.0	53.0	485
12015	9.4	.5	2.3	8.3	14.4	16.2	4.3	1.3	.5	.7	57.9	42.1	556
18021	7.4	1.0	3.7	6.1	16.4	18.0	4.9	.8	.2	.0	58.6	41.4	488
TOT	141	14	54	136	287	324	71	27	9	10	1093	973	2066
PCT	7.8	.7	2.6	6.6	13.9	15.7	3.4	1.3	.4	.5	52.9	47.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	4.1	4.7	1.4	4.2	34.3	50.8	911
06009	5.6	2.9	2.5	3.6	35.8	49.5	749
12015	7.8	4.2	1.7	4.8	39.1	42.4	979
18021	6.3	4.0	2.1	4.3	29.5	53.7	827
TOT	207	139	69	149	1209	1693	3466
PCT	6.0	4.0	2.0	4.3	34.9	48.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	7.0	9.8	17.6	31.8	50.6	528
06009	7.9	12.6	21.6	26.9	51.5	468
12015	9.5	14.1	23.4	35.8	40.8	547
18021	7.5	13.3	22.0	37.8	40.1	481
TOT	162	252	428	672	924	2024
PCT	8.0	12.3	21.1	33.2	45.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.2	.0	.0	.0	.1	4	.2
70/74	.0	.0	.0	.1	.2	.1	.1	.2	9	.5
65/69	.0	.0	.0	.0	.2	1.0	.9	.1	39	2.3
60/64	.0	.0	.0	.1	.6	3.7	5.8	3.8	240	13.9
55/59	.0	.0	.0	.1	.5	6.8	25.8	23.1	970	56.2
50/54	.0	.0	.0	.0	.2	.5	9.3	12.8	393	22.8
45/49	.0	.0	.0	.0	.0	.0	3.4	.7	70	4.1
40/44	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	0	6	28	209	780	703	1726	100.0
PCT	.0	.0	.0	.3	1.6	12.1	45.2	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
.2	.0	.0	.1	.1	.0	.1	.1	.0	.1
.3	.1	.0	.1	.0	.2	.5	.9	.0	.2
1.2	.2	.4	.8	1.1	1.1	4.0	4.6	.0	.6
4.5	.8	1.8	3.2	4.2	4.6	12.6	20.7	.0	3.7
1.3	.2	.4	1.5	2.1	1.8	6.3	7.6	.0	1.5
.6	.1	.1	.2	.7	.5	.8	1.2	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
8.2	1.3	2.8	5.9	8.2	8.2	24.2	35.2	.0	6.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	66	58	51	48	46	58.6	921
06009	72	69	62	56	51	48	45	56.3	766
12015	68	64	61	56	50	46	44	55.7	997
18021	74	68	65	58	52	48	46	58.0	862
TOT	77	68	64	57	51	48	44	57.2	3546

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	2.9	16.1	47.6	32.6	86	465
06009	.0	.0	1.1	10.3	43.0	45.4	89	370
12015	.0	.4	1.0	7.6	41.6	49.4	90	502
18021	.0	.0	1.8	14.6	47.9	35.8	87	397
TOT	0	6	30	213	789	716	88	1754

JULY

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	6	.0	.2
14/16	.0	.0	.0	.0	.1	.1	.2	.1	.1	.0	19	.0	.6
11/13	.0	.0	.0	.0	.1	.4	.1	.1	.1	.0	26	.0	.8
9/10	.0	.0	.0	.0	.2	.7	.6	.2	.0	.0	52	.1	1.6
7/8	.0	.0	.0	.3	1.5	1.1	.6	.0	.0	.0	108	.3	3.2
6	.0	.0	.0	.6	.9	.4	.2	.0	.0	.0	65	.2	1.9
5	.0	.0	.0	1.0	1.9	1.9	.4	.0	.0	.0	159	.4	4.7
4	.0	.0	.2	1.8	3.0	2.0	.6	.0	.0	.0	229	.9	6.6
3	.0	.0	.2	2.6	3.3	1.6	.1	.0	.0	.0	237	1.0	6.7
2	.0	.0	.4	3.9	5.5	1.9	.1	.0	.0	.0	362	1.7	10.0
1	.0	.0	.4	4.2	5.9	1.1	.0	.0	.0	.0	357	1.7	9.9
0	.0	.0	.9	6.0	6.3	.7	.0	.0	.0	.0	429	1.4	12.6
-1	.0	.0	1.0	4.7	3.7	.3	.1	.0	.0	.0	302	1.2	8.7
-2	.0	.2	.7	4.5	2.5	.3	.1	.0	.0	.0	253	1.3	6.9
-3	.0	.3	1.1	2.4	1.3	.1	.0	.0	.0	.0	160	.7	4.6
-4	.0	.4	.9	1.6	.7	.2	.0	.0	.0	.0	117	.7	3.1
-5	.0	.8	1.0	.9	.3	.0	.0	.0	.0	.0	93	.4	2.7
-6	.0	.3	.2	.3	.0	.0	.0	.0	.0	.0	25	.3	.6
-7/-8	.0	.1	1.3	.2	.2	.0	.0	.0	.0	.0	56	.1	1.7
-9/-10	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	17	.0	.5
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	66	266	1079	1145	394	95	19	9	1	3075	384	2691
PCT	.0	2.1	8.7	35.1	37.2	12.8	3.1	.6	.3	.0	100.0	12.5	87.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.8	.4	.0	.0	.0	2.4	.0	.2	.0	.0	.0	.0	.2
3-4	.1	.8	.7	.2	.0	.0	1.7	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.1	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	1.7	.3	.0	.0	6.6	.0	.2	.1	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.4	.6	2.7	.2	.0	.0	.0	3.5
1-2	.0	.6	.0	.0	.0	.0	.6	.1	1.2	.7	.0	.0	.0	1.9
3-4	.0	.0	.2	.1	.0	.0	.3	.0	.2	.5	.2	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	.2	.1	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.3	.1	.0	.0	1.3	.7	4.2	1.8	.3	.1	.0	7.2

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.0	.1	.0	.0	.0	2.5	.4	1.7	.1	.0	.0	.0	2.2
1-2	.1	.8	.6	.0	.0	.0	1.5	.1	1.1	.4	.0	.0	.0	1.7
3-4	.1	.6	.3	.0	.0	.0	1.2	.1	.3	.3	.0	.0	.0	.7
5-6	.0	.1	.3	.2	.1	.0	.7	.0	.1	*	*	.0	.0	.1
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	*	*	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	1.8	.5	.1	.0	6.5	.6	3.3	1.1	.1	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	3.4	.1	.0	.0	.0	3.9	1.1	7.2	.2	.0	.0	.0	8.5	
1-2	.2	4.4	1.3	.0	.0	.0	5.9	.2	8.3	3.6	.0	.0	.0	12.0	
3-4	.0	1.4	2.3	.3	.0	.0	4.0	*	5.4	6.9	.9	.0	.0	13.3	
5-6	.1	.3	.9	.4	.1	.0	1.8	*	1.2	3.9	.9	.0	.0	5.9	
7	.0	.1	.3	.1	.0	.0	.6	.1	*	1.3	.6	.0	.0	2.0	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.1	.6	.4	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	9.6	5.3	.8	.1	.0	16.5	1.3	22.2	16.7	3.3	.0	.0	43.6	87.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.3	18.2	.7	.0	.0	.0	35.3	
1-2	.7	18.4	7.1	.0	.0	.0	26.2	
3-4	.2	8.8	11.5	1.8	.0	.0	22.2	
5-6	.1	1.8	5.9	1.8	.3	.0	9.9	
7	.1	.1	2.3	1.1	.0	.0	3.6	
8-9	.0	.2	1.1	.6	.0	.0	1.8	
10-11	.0	.1	.1	.3	.0	.0	.5	
12	.0	.0	.1	.2	.0	.0	.2	
13-16	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.4	47.7	28.9	9.7	.3	.0	100.0	1244

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	12.7	15.0	7.9	2.4	.9	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	861	3
6-7	.0	8.4	9.0	8.1	4.0	1.5	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	931	4
8-9	.0	3.2	3.0	2.3	2.0	1.2	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	245	5
10-11	.0	.4	.8	.8	.3	.4	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	97	6
12-13	.0	.0	.2	.2	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	12
INDEX	4.9	.9	.9	1.1	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	2
TOTAL	183	306	370	405	175	84	36	23	8	1	6	0	0	0	0	0	0	0	0	1977	4
PCT	8.2	25.6	28.8	20.5	8.9	4.2	1.8	1.2	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.2	.0	.9	.0	.0	.0	.0	1.0	.0	.8	11.4	.8	2.2	.0	83.6
NE	4.6	.0	1.6	.0	.0	.0	.0	6.2	1.3	.0	15.1	.0	.7	.0	76.7
E	7.5	2.5	4.4	.0	.0	.0	.0	13.3	1.8	.0	21.9	.7	1.1	.0	61.2
SE	10.3	1.4	5.3	.0	.0	.0	.0	16.8	1.7	.7	14.8	.0	.0	.0	66.1
S	11.9	1.5	9.9	.0	.0	.0	.0	21.8	2.9	.6	17.4	.0	.4	.0	56.8
SW	2.4	.7	6.2	.0	.0	.0	.0	9.2	1.7	.1	16.1	.5	.5	.0	71.9
W	1.8	.7	1.9	.0	.0	.0	.0	3.8	1.6	.2	21.9	.9	1.0	.0	70.9
NW	.8	.5	.8	.0	.0	.0	.1	2.1	.6	.0	12.1	.2	1.4	.0	83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	.3	1.9	.0	.0	.0	.0	5.2	1.0	.0	19.1	1.3	.3	.0	73.1
TOT PCT	3.6	.7	3.0	.0	.0	.0	*	7.0	1.2	.2	16.1	.5	.9	.0	74.1
TOT OBS:	3013														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.8	.9	3.0	.0	.0	.0	.0	7.3	1.1	.0	14.2	.5	1.1	.0	76.0
0600	2.6	.7	3.1	.0	.0	.0	.0	6.0	1.0	.8	14.1	.8	.4	.0	77.0
1200	4.3	.5	2.9	.0	.0	.0	.0	7.5	1.0	.2	19.4	.2	1.5	.0	70.2
1800	3.1	1.3	2.4	.0	.0	.0	.1	6.8	1.7	.0	19.9	.4	.4	.0	70.8
TOT PCT OBS:	3.5 3175	.9	2.8	.0	.0	.0	.	6.9	1.2	.3	16.9	.5	.9	.0	73.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	3.7	2.4	.8	*	.0		7.8	11.0	5.9	8.7	9.7	4.1	7.3	10.3	6.9	10.8	
NE	.6	1.4	.4	*	.0	.0		2.5	7.2	2.0	.6	2.0	2.1	2.7	4.1	2.6	4.6	
E	1.0	2.6	.7	.2	*	.0		4.6	8.0	4.2	3.1	2.3	4.4	4.0	7.5	4.1	10.5	
SE	1.1	5.7	2.5	.2	.1	.0		9.6	9.3	10.5	7.1	9.8	7.0	9.6	10.8	11.1	6.9	
S	1.0	4.7	2.7	.5	.1	.0		9.0	10.0	10.2	7.3	8.8	5.5	9.0	9.4	11.0	6.2	
SW	1.0	4.4	1.6	.1	*	.0		7.1	8.4	7.4	11.3	6.0	8.1	7.1	7.5	5.4	7.2	
W	2.2	10.5	5.1	.6	.0	.0		18.4	9.1	17.5	26.5	15.7	31.9	15.6	17.4	15.1	22.6	
NW	2.0	13.4	12.0	3.0	.1	.0		30.6	12.0	31.2	30.4	32.9	31.8	31.7	26.0	29.5	28.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.4							10.4	.0	11.0	4.9	12.9	5.0	12.9	7.1	14.3	3.3	
TOT OBS	643	1469	871	170	10	0	3163		9.1	598	245	528	181	566	253	516	276	
TOT PCT	20.3	46.4	27.5	5.4	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.6	3.4	1.6	.2	.0		7.8	11.0	6.7	8.3	8.2	8.2
NE	1.4	.9	.2	.0	.0		2.5	7.2	1.6	2.0	3.1	3.3
E	2.5	1.6	.3	.1	.0		4.6	8.0	3.9	2.8	5.1	6.3
SE	3.8	4.6	1.0	.1	.0		9.6	9.3	9.5	9.1	10.0	9.6
S	3.6	4.0	1.1	.2	.0		9.0	10.0	9.4	7.9	9.1	9.3
SW	3.0	3.5	.6	*	.0		7.1	8.4	8.5	6.6	7.2	6.0
W	7.2	9.3	1.9	*	.0		18.4	9.1	20.1	19.9	16.2	17.7
NW	8.1	14.6	7.4	.5	.0		30.6	12.0	31.0	32.6	29.9	29.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.4						10.4	.0	9.3	10.9	11.1	10.5
TOT OBS	1390	1326	448	39	0	3163		9.1	843	709	814	792
TOT PCT	42.7	41.9	14.2	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

AUGUST

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	9.3	8.5	46.0	29.3	6.5	.4	.0	.0	9.7	100.0	843
0600	10.9	7.6	46.4	29.9	5.1	.1	.0	.0	9.2	100.0	709
1200	11.1	10.4	47.3	25.5	5.3	.5	.0	.0	9.1	100.0	819
1800	10.5	13.0	46.1	25.6	4.5	.3	.0	.0	8.6	100.0	792
TOT	329	314	1469	871	170	10	0	0	9.1		3163
PCT	10.4	9.9	46.4	27.5	5.4	.3	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.2	1.2	1.3	2.2		4.2
NE	.5	.3	.6	.7		5.0
E	.1	.2	1.2	1.8		6.8
SE	.9	.7	3.1	5.0		6.4
S	.6	.9	2.6	5.7		6.8
SW	.8	.8	2.0	2.4		6.0
W	3.8	2.8	3.1	5.7		5.0
NM	13.0	4.2	5.6	9.5		4.2
VAR	.0	.0	.0	.0		.0
CALM	3.4	1.3	3.0	5.1		5.2
TOT OBS	528	251	454	776	2009	5.2
TOT PCT	26.3	12.5	22.6	38.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.2	.2	1.3	.8	.2	.0	.0	.0	.0	4.8
NE	.1	.0	.0	.1	.4	.4	.1	.0	.1	.0	.0	.9
E	.3	.0	.1	.2	.5	.9	.4	.1	.0	.0	.0	.9
SE	.8	.0	.1	.6	1.5	2.7	1.2	.4	.1	.0	.0	2.5
S	1.0	.0	.7	1.0	1.7	1.4	1.1	.4	.1	.0	.0	2.3
SW	.4	.0	.2	.7	1.3	1.2	.2	.1	.0	.0	.0	2.2
W	1.5	.1	.3	.9	2.1	1.7	.8	.3	.2	.0	.0	7.5
NM	2.6	.0	.5	1.6	4.2	3.6	.7	.2	.1	.0	.0	18.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.0	.4	1.0	3.1	.6	.1	.0	.0	.0	5.4
TOT OBS	180	5	44	115	282	316	107	34	16	4	906	2009
TOT PCT	9.0	.2	2.2	5.7	14.0	15.7	5.3	1.7	.8	.2	45.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.8	2.7	2.8	2.8	2.8	2.8	2.8	2.8
>3500	5.8	8.2	8.4	8.4	8.4	8.4	8.4	8.4
>2000	13.3	22.8	23.8	24.0	24.0	24.0	24.0	24.0
>1000	20.9	35.3	37.2	37.5	37.5	37.8	37.8	37.8
>600	23.7	40.1	42.6	43.0	43.1	43.4	43.5	43.5
>300	24.1	41.4	44.4	44.9	45.1	45.5	45.7	45.7
>150	24.1	41.5	44.5	45.1	45.4	45.8	45.9	45.9
>0	24.2	42.0	45.5	46.7	48.6	51.0	54.3	54.9
TOTAL	493	833	927	952	990	1038	1106	1118

TOTAL NUMBER OF OBS: 2037

PCT FREQ NM <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.1	7.5	11.1	6.3	5.4	9.1	6.0	8.7	27.5	8.3	2117

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

AUGUST

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.2	.1	.1	.1	.0	.0	.6	
	NO PCP	.5	.2	.4	.5	.6	.4	1.6	2.0	.0	1.3	7.6	
	TOT %	.5	.2	.4	.6	.8	.5	1.7	2.1	.0	1.3	8.2	
1/2<1	PCP	.0	.0	.0	.1	.*	.*	.*	.0	.0	.0	.2	
	NO PCP	.1	.1	.5	.5	.5	.3	.7	.7	.0	.1	3.6	
	TOT %	.1	.1	.5	.6	.5	.3	.7	.7	.0	.1	3.8	
1<7	PCP	.*	.0	.1	.*	.1	.1	.*	.1	.0	.1	.5	
	NO PCP	.1	.*	.1	.1	.1	.1	.5	.3	.0	.1	1.5	
	TOT %	.2	.*	.1	.2	.2	.2	.5	.4	.0	.2	2.0	
2<5	PCP	.0	.1	.1	.4	.5	.1	.1	.*	.0	.1	1.4	
	NO PCP	.1	.*	.1	.3	.7	.3	.9	.8	.0	.2	3.0	
	TOT %	.1	.2	.2	.7	.7	.4	1.0	.8	.0	.3	4.5	
5<10	PCP	.1	.*	.3	.7	.8	.3	.2	.2	.0	.3	3.0	
	NO PCP	1.4	.6	1.3	2.5	2.0	2.1	4.6	7.7	.0	2.6	24.7	
	TOT %	1.5	.6	1.6	3.2	2.8	2.4	4.8	7.9	.0	2.9	27.8	
10+	PCP	.0	.*	.1	.2	.3	.1	.1	.2	.0	.1	1.2	
	NO PCP	5.6	1.4	1.7	4.2	3.8	3.3	8.9	18.5	.0	5.4	52.6	
	TOT %	5.6	1.4	1.8	4.4	4.1	3.4	9.0	18.7	.0	5.5	53.8	
TOT OBS		3004											
TOT PCT		7.9	2.5	4.7	9.7	9.2	7.2	17.9	30.6	.0	10.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.*	.1	.1	.4	.2	.0	1.3	2.6	
	4-10	.3	.1	.2	.4	.4	.4	1.1	1.4	.0		4.2	
	11-21	.1	.*	.0	.2	.3	.1	.3	.5	.0		1.3	
	22+	.0	.0	.*	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.5	.2	.4	.7	.8	.5	1.7	2.1	.0	1.3	8.3	
1/2<1	0-3	.*	.1	.2	.2	.2	.1	.2	.1	.0	.1	1.2	
	4-10	.*	.*	.3	.3	.2	.1	.3	.4	.0		1.8	
	11-21	.0	.0	.*	.1	.1	.1	.2	.0	.0		.6	
	22+	.0	.0	.0	.*	.*	.0	.*	.*	.0		.2	
	TOT %	.1	.1	.5	.6	.6	.3	.7	.7	.0	.1	3.8	
1<2	0-3	.*	.*	.0	.*	.*	.*	.1	.1	.0	.2	.6	
	4-10	.1	.*	.1	.*	.1	.2	.4	.2	.0		1.2	
	11-21	.1	.0	.0	.1	.1	.*	.*	.1	.0		.4	
	22+	.0	.0	.0	.*	.*	.0	.1	.*	.0		.2	
	TOT %	.2	.*	.1	.2	.2	.2	.6	.5	.0	.2	2.3	
2<5	0-3	.*	.*	.1	.*	.*	.1	.2	.*	.0	.3	.8	
	4-10	.1	.1	.1	.3	.4	.2	.7	.4	.0		2.2	
	11-21	.*	.0	.*	.3	.3	.2	.3	.4	.0		1.5	
	22+	.0	.*	.*	.*	.*	.*	.*	.1	.0		.2	
	TOT %	.2	.2	.2	.7	.7	.4	1.1	.9	.0	.3	4.7	
5<10	0-3	.1	.2	.5	.4	.2	.4	.5	.8	.0	3.0	6.0	
	4-10	.8	.2	.7	1.7	1.5	1.5	2.5	2.9	.0		11.7	
	11-21	.5	.1	.4	1.0	1.0	.5	1.6	3.3	.0		8.6	
	22+	.2	.0	.1	.*	.2	.0	.2	.5	.0		1.1	
	TOT %	1.5	.6	1.6	3.2	2.8	2.3	4.8	7.8	.0	3.0	27.5	
10+	0-3	.5	.2	.2	.4	.4	.3	.7	.6	.0	5.5	8.8	
	4-10	2.5	.9	1.3	2.9	2.3	2.1	5.1	7.9	.0		29.1	
	11-21	1.7	.2	.3	.9	1.1	.9	2.9	7.6	.0		15.5	
	22+	.7	.*	.1	.2	.3	.1	.3	2.4	.0		4.1	
	TOT %	5.5	1.4	1.8	4.4	4.0	3.4	9.0	18.5	.0	5.5	59.4	
TOT OBS		3080											
TOT PCT		7.9	2.5	4.6	9.7	9.1	7.2	18.0	30.6	.0	10.4	100.0	

AUGUST

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

AREA 0041 VANCOUVER IS. SW
48.5N 120.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	8.1	.0	2.7	5.1	14.2	13.8	5.0	2.8	.9	.0	52.6	47.4	563
06009	7.2	.2	2.1	4.7	12.3	13.3	4.5	.6	.8	.0	45.7	54.3	512
12015	10.1	.0	1.8	6.8	15.6	16.0	5.3	1.8	.6	.4	58.2	41.8	514
18021	10.4	.9	1.9	6.0	12.8	19.4	7.7	1.7	1.1	.4	62.1	37.9	470
TOT	184	5	44	116	283	319	114	36	17	4	1122	939	2061
PCT	8.9	.2	2.1	5.6	13.7	15.5	5.5	1.7	.8	.2	56.4	45.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.9	5.1	2.1	4.1	26.1	56.7	859
06009	8.9	2.9	1.0	3.9	28.0	55.4	722
12015	9.4	5.5	3.1	4.8	30.8	46.4	860
18021	10.1	4.5	2.6	5.1	28.3	49.4	781
TOT	275	147	72	144	912	1672	3222
PCT	8.5	4.6	2.2	4.5	28.3	51.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.4	12.0	19.1	34.6	46.3	560
06009	7.4	10.8	17.6	30.0	52.4	500
12015	10.0	12.4	22.2	36.6	41.1	508
18021	10.4	13.6	22.2	40.5	37.3	469
TOT	184	248	412	720	905	2037
PCT	9.0	12.2	20.2	35.3	44.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.0	.0	.2	.0	.0	3	.2
70/74	.0	.0	.0	.2	.2	.1	.2	.2	14	.9
65/69	.0	.0	.0	.3	.4	1.8	1.2	1.3	83	5.1
60/64	.0	.0	.0	.0	.9	5.4	13.5	12.6	532	32.4
55/59	.0	.0	.0	.0	.5	3.0	17.9	25.2	766	46.6
50/54	.0	.0	.0	.0	.0	.2	5.9	5.2	186	11.3
45/49	.0	.0	.0	.0	.0	.0	2.9	.4	55	3.3
40/44	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	0	9	33	179	683	739	1643	100.0
PCT	.0	.0	.0	.5	2.0	10.9	41.6	45.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
.8	.1	.0	.1	.1	.2	.9	.3	.0	.1
.7	.3	.4	.4	.4	.3	.9	1.2	.0	.3
2.9	.9	.9	2.9	3.3	2.9	6.7	10.2	.0	1.4
4.3	1.0	1.6	2.9	4.3	3.6	9.2	16.2	.0	3.2
1.1	.3	.6	1.0	1.1	1.3	2.4	3.1	.0	.4
.2	.2	.3	.3	.7	.2	.6	.9	.0	.2
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
9.5	2.8	3.8	7.6	10.3	6.7	19.7	32.1	.0	5.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	72	67	60	52	48	44	60.1	879
06009	72	66	63	56	52	48	43	57.7	736
12015	68	64	62	57	50	47	44	56.8	882
18021	79	70	66	59	52	48	45	59.3	813
TOT	80	69	65	59	51	46	43	58.5	3310

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.4	3.1	17.1	39.7	38.7	87	491		
06009	.0	.0	1.1	6.7	43.0	49.2	90	358		
12015	.0	.2	1.1	6.1	40.2	52.4	90	460		
18021	.0	.3	2.7	12.0	44.0	41.1	88	375		
TOT	0	9	34	181	699	761	89	1684		

AUGUST

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1861-1973

TABLE 17

AREA 0041 VANCOUVER IS. SW
48.5N 126.1WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	9	.1	.2
11/13	.0	.0	.0	.0	.0	.4	.2	.1	.1	.0	25	*	.8
9/10	.0	.0	.0	.1	.1	.8	.2	.0	.0	.0	64	.2	2.0
7/8	.0	.0	.0	.1	1.1	2.0	1.4	.1	.0	.0	132	.8	3.8
6	.0	.0	.0	.5	.9	1.1	.6	*	.0	.0	87	.7	2.4
5	.0	.0	.0	.8	1.6	2.7	.5	.1	.0	.0	153	.9	4.5
4	.0	.0	.1	.8	2.8	2.4	.6	*	.0	.0	192	1.4	5.3
3	.0	.0	.1	1.1	3.8	2.0	.4	.0	.0	.0	212	1.6	5.9
2	.0	.0	.2	2.1	5.3	2.3	.2	.0	.0	.0	287	1.8	8.4
1	.0	.0	.1	2.5	5.6	2.7	.2	.0	.0	.0	315	1.6	9.3
0	.0	.0	.2	2.8	8.7	2.8	.1	*	.0	.0	415	1.6	13.0
-1	.0	.0	.4	2.9	5.6	1.2	.0	.0	.0	.0	284	1.4	8.6
-2	.0	.0	.4	2.0	4.5	1.0	.0	*	.0	.0	225	1.0	6.9
-3	.0	.0	.8	2.0	1.7	.3	.0	.0	.0	.0	135	1.0	3.7
-4	.0	.1	.8	.9	.8	.2	.0	.0	.0	.0	79	.2	2.5
-5	.0	.6	1.5	.5	.8	.0	.0	.0	.0	.0	98	.9	2.6
-6	.0	.4	.7	.6	.4	.0	.0	.0	.0	.0	60	.5	1.6
-7/-8	.0	.3	.4	.4	.2	.1	.0	.0	.0	.0	37	.3	1.0
-9/-10	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	11	.1	.2
-11/-13	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	10	.1	.2
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	48	163	565	1255	626	146	21	3	3	2838	464	2374
PCT	.1	1.7	5.7	19.9	44.2	22.1	5.1	.7	.3	.1	100.0	16.3	83.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	2.1	.2	.0	.0	.0	2.7	.0	.6	.0	.0	.0	.0	.6
1-2	.1	.8	.6	.0	.0	.0	1.5	.2	.5	.1	.0	.0	.0	.8
3-4	.1	.4	.3	.1	.0	.0	.8	.0	*	.1	.0	.0	.0	.1
5-6	.0	.2	.3	.0	.0	.0	.6	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	1.5	.3	.0	.0	5.9	.2	1.3	.3	.0	.0	.0	1.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.7	2.3	.3	.0	.0	.0	4.3
1-2	.0	.9	.1	.0	.0	.0	1.0	.1	3.0	.7	.0	.0	.0	3.8
3-4	.0	.8	.3	.0	.0	.0	1.0	.0	1.3	.8	.2	.0	.0	2.4
5-6	.0	.0	.0	.0	.1	.0	.1	.0	.3	.6	*	.1	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.4	.1	.1	.0	2.9	.8	7.9	2.8	.2	.1	.0	11.8

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.9	.1	.0	.0	.0	3.8	.6	1.6	.0	.0	.0	.0	2.2
1-2	.1	2.3	.6	.0	.0	.0	3.0	.0	1.4	.4	.0	.0	.0	1.9
3-4	.0	1.0	.8	.2	.0	.0	2.0	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.3	.5	.4	.1	.0	1.3	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.4	2.2	.6	.1	.0	10.3	.6	3.6	1.8	.0	.0	.0	6.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	4.2	.2	.0	.0	.0	4.9	1.6	6.0	.2	.0	.0	.0	7.8	
1-2	.2	3.0	.7	.0	.0	.0	3.8	.3	6.8	3.3	.0	.0	.0	10.4	
3-4	.0	.9	.9	.1	.0	.0	1.9	.0	1.6	2.8	.4	.0	.0	4.8	
5-6	.0	.3	.5	.1	.0	.0	.9	.0	.6	2.4	.6	.0	.0	3.5	
7	.0	.0	.5	.1	.0	.0	.6	.0	.0	1.0	.4	.0	.0	1.3	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	8.3	2.9	.4	.0	.0	12.4	2.0	13.0	10.0	1.6	.1	.0	28.6	79.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	24.9	21.5	1.0	.0	.0	.0	47.4	
1-2	1.2	18.7	6.4	.0	.0	.0	26.3	
3-4	.1	6.3	6.9	.9	.0	.0	14.2	
5-6	.0	1.8	4.6	1.1	.3	.0	7.8	
7	.0	.1	2.3	.3	.0	.0	2.8	
8-9	.1	.0	.3	.5	.0	.0	.9	
10-11	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.2	.1	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	26.2	48.4	21.8	3.2	.4	.0	100.0	1283

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	17.3	12.2	5.2	1.9	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	803	3
6-7	.1	7.9	8.4	6.4	2.7	.9	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	528	4
8-9	.0	3.2	2.8	2.8	2.2	.5	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	237	5
10-11	.0	.6	.7	.5	.3	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	5
12-13	.0	.0	.7	.4	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
13-14	.0	.0	.0	.2	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
INDBT	8.5	2.6	1.6	1.3	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	2
TOTAL	239	613	513	326	152	90	29	13	12	0	0	0	0	0	0	0	0	0	0	1949	3
PCT	12.3	31.6	26.3	16.7	7.8	2.6	1.5	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

SEPTEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.3	.4	.9	.0	.0	.0	.0	2.6	.7	.4	11.6	.3	2.1	.0	82.5
NE	1.1	.0	1.1	.0	.0	.0	.0	2.1	.5	.0	14.6	.5	4.5	.0	77.7
E	7.1	.5	4.5	.0	.0	.0	.0	11.2	.8	.0	14.2	.2	6.8	.0	86.8
SE	16.1	2.2	7.9	.0	.0	.0	.0	25.3	1.4	.3	13.2	.6	2.2	.0	57.0
S	15.4	3.2	6.3	.0	.0	.0	.0	24.5	1.6	.0	10.4	.4	1.3	.0	61.6
SW	9.8	2.1	8.2	.0	.0	.0	.0	19.6	1.8	1.0	13.5	.1	.9	.0	63.1
W	3.7	.7	1.7	.0	.0	.0	.0	6.1	1.4	.0	15.3	.5	2.1	.0	74.7
NW	.5	.3	1.3	.0	.0	.0	.0	2.2	.5	.0	9.4	.4	1.1	.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.5	3.4	.0	.0	.0	.0	3.8	.0	.5	10.6	.0	4.3	.0	80.8
TOT PCT	6.0	1.1	3.7	.0	.0	.0	.0	10.4	1.0	.2	12.1	.4	2.3	.0	73.6
TOT OBS:	2556														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL PCPN	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	5.6	1.2	3.0	.0	.0	.0	.0	9.6	.3	.2	14.0	.3	2.6	.0	73.1
06009	6.1	1.1	3.1	.0	.0	.0	.0	10.1	1.3	.3	11.8	.3	.8	.0	75.4
12015	5.6	.7	5.3	.0	.0	.0	.0	10.9	.4	.3	13.1	.3	2.4	.0	72.6
18021	5.9	1.2	3.2	.0	.0	.0	.0	10.3	1.8	.0	13.7	.5	3.3	.0	70.3
TOT PCT	5.8	1.0	3.7	.0	.0	.0	.0	10.2	.9	.2	13.2	.3	2.3	.0	72.8
TOT OBS:	2675														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	4.5	3.6	1.0	.2	*		10.4	11.8	9.9	9.8	10.7	9.0	10.5	13.1	8.8	12.5	
NE	.7	1.8	1.0	.2	*	.0		3.7	9.7	1.8	2.3	1.5	5.2	4.5	6.3	4.4	5.7	
E	1.0	4.5	2.0	.7	*	.0		8.2	10.0	5.5	5.3	6.1	8.6	7.0	15.3	10.9	9.9	
SE	.9	5.7	4.5	1.3	.3	.0		12.8	12.3	13.0	13.1	9.4	12.4	12.3	13.1	15.0	14.9	
S	.8	5.4	4.1	.7	.3	.0		11.2	12.0	12.9	11.4	11.0	11.9	10.9	10.2	11.7	8.7	
SW	.6	4.0	3.0	.4	.0	.0		8.0	10.9	7.9	9.1	7.7	9.7	8.8	8.8	7.3	8.4	
W	1.9	7.1	4.6	.8	.1	.0		14.5	10.3	14.3	20.0	16.5	17.0	12.4	10.9	13.9	13.0	
NW	1.5	8.6	9.5	2.7	.4	*		22.8	13.4	24.8	24.6	28.6	22.1	24.0	14.6	19.1	23.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.4							8.4	.0	9.8	4.4	10.4	8.0	9.6	7.7	8.9	3.8	
TOT OBS	459	1128	880	215	36	1	2719		10.7	461	204	441	201	480	221	451	260	
TOT PCT	16.9	41.3	32.4	7.9	1.3	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	3.1	4.9	1.9	.4	.1		10.4	11.8	9.9	10.2	11.3	10.1
NE	1.3	1.9	.3	.1	.0		3.7	9.7	2.0	2.7	5.1	4.9
E	3.0	4.1	1.0	.2	.0		8.2	10.0	5.5	6.9	9.6	10.5
SE	3.6	6.1	2.3	.7	*		12.8	12.3	13.0	10.3	12.6	15.0
S	3.2	5.4	2.1	.6	.0		11.2	12.0	12.4	11.3	10.7	10.6
SW	2.3	4.1	1.4	.2	.0		8.0	10.9	8.3	7.1	8.8	7.7
W	5.1	8.9	2.1	.4	.0		14.5	10.3	16.1	16.7	11.9	13.6
NW	4.8	10.8	5.8	1.2	.1		22.8	13.4	24.7	25.2	21.0	20.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.4						8.4	.0	8.1	9.7	9.0	7.0
TOT OBS	946	1205	458	105	5	2719		10.7	865	642	701	711
TOT PCT	34.8	44.3	16.8	3.9	.2		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

AREA 0041 VANCOUVER IS. SW
48.5N 124.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	0-5	6-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	MEAN	PCT FREQ	TOTAL OBS
HOUR	CALM	1-5	6-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	PCT FREQ	TOTAL OBS
0000Z	8.1	9.3	39.2	34.1	7.8	1.4	.0	11.0	100.0	669				
0600Z	9.7	7.5	40.5	33.0	7.6	1.7	.0	10.8	100.0	642				
1200Z	9.0	9.0	42.5	31.0	7.7	.7	.1	10.3	100.0	701				
1800Z	7.0	8.0	43.5	31.5	8.4	1.5	.0	10.8	100.0	711				
TOT	229	230	1128	880	215	36	1	10.7		2719				
PCT	8.4	8.5	41.3	32.4	7.9	1.3	.0	100.0						

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL	MEAN CLOUD COVER
N	6.0	1.3	1.9	1.6		3.1
NE	1.6	.3	.5	.7		3.5
E	2.3	.8	1.6	2.8		4.9
SE	2.1	.8	2.9	6.9		6.0
S	.8	.9	3.8	6.3		6.6
SW	1.2	1.3	2.1	3.7		5.9
W	3.4	2.0	3.5	4.7		5.0
NW	9.7	3.5	5.0	4.2		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.2	1.2	2.6	2.7		4.2
TOT OBS	492	196	387	548	1623	4.7
TOT PCT	30.3	12.1	23.8	33.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.2	.1	.1	.5	.5	.7	.3	.1	.1	.0	8.2	
.1	.0	.2	.2	.1	.2	.1	.1	.1	.0	2.2	
.2	.1	.3	.7	.6	.7	.5	.4	.0	.1	3.9	
.9	.1	.2	.9	2.4	2.5	1.1	.4	.2	.0	3.9	
.9	.2	.4	1.2	2.1	2.0	1.2	.7	.1	.0	2.9	
.3	.1	.2	.8	1.8	.8	.6	.2	.1	.1	3.4	
1.2	.0	.6	.9	1.6	1.3	.7	.3	.1	.0	6.7	
.9	.0	.3	.8	2.3	1.7	.4	.2	.1	.1	15.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	.0	.1	.1	2.1	1.7	.5	.1	.0	.0	4.8	
.84	.0	.37	.98	2.22	1.87	.89	.41	.13	.4	83.9	1623
5.2	.6	2.3	6.0	13.7	11.5	5.5	2.5	.8	.2	51.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
VSBY (NM)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >5000	.7	1.0	1.1	1.1	1.1	1.1	1.1	1.1
> OR >5000	3.0	3.5	3.6	3.6	3.6	3.6	3.6	3.6
> OR >5000	6.7	8.5	9.0	9.1	9.1	9.2	9.2	9.2
> OR >2000	13.8	19.1	20.3	20.4	20.4	20.6	20.6	20.6
> OR >1000	21.8	31.3	33.7	34.0	34.1	34.3	34.3	34.3
> OR >400	24.4	36.2	39.4	39.9	40.0	40.3	40.3	40.3
> OR >300	24.7	37.2	41.1	42.0	42.2	42.5	42.6	42.6
> OR >150	24.7	37.4	41.4	42.3	42.6	43.1	43.1	43.1
> OR >0	24.8	37.9	42.3	43.7	44.9	46.8	48.2	48.4
TOTAL	409	625	697	720	740	771	795	798

TOTAL NUMBER OF OBS: 1649

PCT FREQ NM <5/8: 51.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
0	1	2	3	4	5	6	7	8	9	OBS
20.3	8.7	10.5	6.5	4.9	6.0	5.9	6.9	25.2	4.9	1704

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

SEPTEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.4	.2	.2	.1	.0	.0	.0	.9	
	NO PCP	.5	.2	.3	.4	.4	.4	1.3	1.2	.0	.5	5.2	
	TOT %	.5	.2	.4	.8	.6	.6	1.3	1.2	.0	.5	6.1	
1/2<1	PCP	.0	.0	.1	.2	.2	.0	.1	.0	.0	.0	.5	
	NO PCP	.1	.0	.2	.5	.2	.2	.3	.1	.0	.1	1.8	
	TOT %	.2	.0	.3	.7	.4	.2	.4	.1	.0	.1	2.4	
1<2	PCP	.0	.0	.1	.5	.1	.1	.0	.1	.0	.0	1.0	
	NO PCP	.1	.1	.1	.2	.1	.0	.2	.3	.0	.1	1.2	
	TOT %	.1	.1	.2	.7	.2	.1	.2	.4	.0	.1	2.2	
2<5	PCP	.0	.0	.2	.8	.8	.3	.1	.2	.0	.0	2.5	
	NO PCP	.2	.1	.6	.4	.4	.3	.6	.4	.0	.2	3.3	
	TOT %	.3	.1	.9	1.2	1.2	.7	.7	.6	.0	.2	5.9	
5<10	PCP	.1	.0	.4	1.1	.9	.7	.4	.1	.0	.2	3.8	
	NO PCP	2.6	1.3	1.9	3.3	2.7	1.6	3.2	5.2	.0	1.2	23.0	
	TOT %	2.7	1.4	2.3	4.3	3.5	2.3	3.6	5.3	.0	1.3	26.8	
10+	PCP	.1	.0	.1	.2	.5	.2	.1	.1	.0	.1	1.6	
	NO PCP	6.6	4.9	4.3	4.7	4.6	3.7	8.3	15.3	.0	5.7	55.1	
	TOT %	6.8	1.9	4.4	4.9	5.1	3.9	8.4	15.4	.0	5.8	56.6	
TOT OBS		2551											
TOT PCT		10.5	3.6	8.4	12.7	11.0	7.8	14.7	23.2	.0	8.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.2	.3	.3	.0	.5	1.8	
	4-10	.3	.1	.2	.4	.4	.3	1.0	.6	.0	.0	3.2	
	11-21	.1	.0	.0	.0	.2	.1	.1	.4	.0	.0	1.1	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.5	.2	.4	.8	.8	.6	1.4	1.3	.0	.5	6.2	
1/2<1	0-3	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1	.3	
	4-10	.0	.0	.2	.5	.1	.1	.3	.0	.0	.0	1.3	
	11-21	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.4	.7	.4	.2	.4	.1	.0	.1	2.4	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.0	.1	.2	.0	.0	.1	.3	.0	.0	.8	
	11-21	.0	.0	.0	.2	.1	.1	.1	.2	.0	.0	.7	
	22+	.0	.0	.1	.3	.1	.0	.0	.1	.0	.0	.5	
	TOT %	.1	.1	.2	.8	.2	.1	.3	.5	.0	.1	2.4	
2<5	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.2	.9	
	4-10	.1	.1	.5	.5	.4	.3	.2	.2	.0	.0	2.3	
	11-21	.0	.0	.1	.4	.5	.2	.4	.3	.0	.0	1.9	
	22+	.0	.0	.2	.3	.3	.1	.1	.1	.0	.0	1.1	
	TOT %	.3	.2	.9	1.2	1.3	.7	.8	.6	.0	.2	6.2	
5<10	0-3	.3	.3	.3	.4	.2	.1	.6	.4	.0	1.4	3.8	
	4-10	1.2	.8	1.2	1.2	1.8	1.2	1.6	2.1	.0	.0	11.0	
	11-21	.7	.3	.6	2.1	1.2	.9	1.3	1.9	.0	.0	8.9	
	22+	.4	.0	.3	.6	.2	.0	.2	.9	.0	.0	2.7	
	TOT %	2.6	1.3	2.3	4.3	3.5	2.3	3.6	5.3	.0	1.4	26.4	
10+	0-3	.5	.2	.5	.2	.2	.2	.9	.7	.0	6.0	9.4	
	4-10	2.8	.8	2.4	2.8	2.7	2.0	4.1	5.7	.0	.0	23.2	
	11-21	2.7	.7	1.2	1.6	1.9	1.6	2.7	6.9	.0	.0	19.3	
	22+	.7	.2	.2	.2	.3	.2	.6	2.1	.0	.0	4.5	
	TOT %	6.7	1.9	4.3	4.8	5.1	3.9	8.3	15.3	.0	6.0	56.4	
TOT OBS		2623											
TOT PCT		10.4	3.6	8.4	12.6	11.1	7.8	14.6	23.2	.0	8.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.6	.9	2.3	4.1	14.3	9.4	6.9	3.7	.9	.2	47.4	52.6	435
06009	6.4	.2	1.7	6.6	12.5	12.0	5.4	1.2	.7	.0	46.7	53.3	409
12015	5.1	1.0	2.4	5.3	12.5	11.1	4.8	3.6	.7	.5	47.0	53.0	415
18021	4.9	.0	2.5	7.8	15.0	13.0	4.7	1.5	.7	.5	50.5	49.5	408
TOT	47	9	37	99	226	189	91	42	13	5	798	869	1667
PCT	5.2	.5	2.2	5.9	13.6	11.3	5.5	2.5	.8	.3	47.9	52.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	6.8	2.9	2.6	5.7	27.2	54.9	681
06009	6.1	1.8	2.1	7.1	27.5	55.3	658
12015	7.5	3.7	1.4	5.1	27.9	54.1	732
18021	8.0	1.6	2.7	6.4	25.7	55.6	673
TOT	195	69	83	166	743	1508	2744
PCT	7.1	2.5	2.3	6.0	27.1	55.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.6	9.0	17.2	32.3	50.6	431
06009	6.4	9.2	19.8	28.5	51.7	404
12015	5.1	10.0	17.8	31.3	50.9	409
18021	4.9	8.1	20.0	33.1	46.9	405
TOT	87	150	308	516	825	1649
PCT	5.3	9.1	18.7	31.3	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
70/74	.0	.0	.0	.0	.1	.1	.0	.0	4	.3
65/69	.0	.0	.1	.1	.3	.6	.9	.7	41	2.7
60/64	.0	.0	.0	.3	1.9	3.8	7.3	6.6	306	19.8
55/59	.0	.0	.1	.1	1.7	7.3	19.2	17.3	706	43.7
50/54	.0	.0	.0	.3	.8	3.1	12.4	8.2	382	24.7
45/49	.0	.0	.0	.0	.0	.1	4.5	2.1	104	6.7
40/44	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	3	10	71	232	687	541	1545	100.0
PCT	.0	.1	.2	.6	4.6	15.0	44.5	35.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
70/74	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
65/69	.4	.1	.1	.2	.5	.3	.4	.5	.0	.2
60/64	2.0	.7	1.5	2.4	2.7	1.8	2.9	4.3	.0	1.5
55/59	6.3	1.4	2.7	4.7	4.6	4.3	6.4	13.0	.0	2.4
50/54	2.5	1.1	3.1	2.8	2.0	1.4	3.8	6.4	.0	1.7
45/49	.8	.3	.6	.8	1.4	1.0	1.1	.6	.0	.1
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.1	3.7	8.0	10.6	11.2	8.8	14.6	24.9	.0	5.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	70	66	58	50	47	46	58.1	690
06009	77	67	63	56	50	47	46	56.5	663
12015	69	65	61	55	48	45	43	55.3	749
18021	78	69	65	57	51	48	43	57.7	724
TOT	78	69	64	57	50	46	43	56.9	2826

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	6.3	17.1	43.7	31.0	85	426
06009	.0	.5	3.0	14.6	45.9	35.9	87	370
12015	.0	.2	2.0	10.6	44.6	42.6	89	453
18021	.0	1.4	7.4	17.9	42.5	30.8	85	351
TOT	0	16	73	238	707	566	86	1600

SEPTEMBER

PERIOD: (PRIMARY) 1934-1973
(OVER-ALL) 1860-1973

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	41	45	49	53	57	61	65	69	73	77	TOT	W	NO
TMP DIF	44	48	52	56	60	64	68	72	76	80		FOG	FOG
17/19							.1	.0	.0	.2	6	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	10	.0	.4
11/13	.0	.0	.0	.0	.1	.4	.2	.2	.0	.0	23	.1	.8
9/10	.0	.0	.0	.0	.6	.6	.6	.2	.0	.0	51	.1	2.0
7/8	.0	.0	.0	.1	.9	.5	.7	.1	.0	.0	57	.3	2.0
6	.0	.0	.0	.5	.7	.6	.5	.1	.0	.0	58	.2	2.2
5	.0	.0	.0	.7	1.3	1.4	.3	.0	.0	.0	88	.5	3.2
4	.0	.0	.1	1.6	1.6	1.5	.1	.0	.0	.0	120	.7	4.2
3	.0	.0	.2	1.4	2.4	1.4	.2	.0	.0	.0	135	1.0	4.5
2	.0	.0	.7	2.9	4.0	2.0	.2	.0	.0	.0	239	1.4	8.4
1	.0	.0	.7	3.3	4.0	1.5	.1	.0	.0	.0	234	1.6	7.9
0	.0	.0	2.0	5.0	7.9	1.5	.2	.0	.0	.0	406	3.0	13.6
-1	.0	.0	1.2	4.2	4.5	1.0	.1	.0	.0	.0	271	1.0	10.1
-2	.0	.2	1.4	3.9	3.4	.5	.0	.0	.0	.0	230	1.2	8.2
-3	.0	.0	1.6	2.7	1.7	.3	.0	.0	.0	.0	156	.7	5.7
-4	.0	.2	1.5	2.3	.7	.0	.0	.0	.0	.0	115	.5	4.3
-5	.0	1.4	1.4	1.5	.6	.0	.0	.0	.0	.0	119	.5	4.4
-6	.0	.7	.4	.8	.2	.0	.0	.0	.0	.0	54	.2	2.0
-7/-8	.0	.9	.3	.6	.1	.0	.0	.0	.0	.0	48	.4	1.6
-9/-10	.0	.3	.0	.2	.2	.0	.0	.0	.0	.0	19	.2	.5
-11/-13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	3		281		851		84			2		330	2113
		95		317		325		21		4	2443		
PCT	.1	3.9	11.5	37.8	34.8	13.3	3.4	.9	.1	.2	100.0	13.5	86.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.6	1.1	.0	.0	.0	3.1	.1	.9	.0	.0	.0	.0	1.0
1-2	.1	1.3	1.3	.0	.0	.0	2.8	.0	.2	.3	.0	.0	.0	.5
3-6	.0	.4	1.7	.1	.0	.0	2.1	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	4.1	.4	.1	.0	9.4	.1	1.2	.5	.0	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	2.1	.0	.0	.0	.0	3.1	.7	3.3	.2	.0	.0	.0	4.2
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.5	1.0	.0	.0	.0	2.5
3-6	.0	.2	.2	.2	.0	.0	.6	.0	1.4	1.4	.2	.0	.0	3.0
7	.0	.0	.1	.2	.0	.0	.4	.0	.7	1.5	.2	.0	.0	1.9
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.4	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.1	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.2	1.6	.6	.0	.0	6.3	.7	6.3	4.9	.8	.1	.0	12.9

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	3.0	.0	.0	.0	.0	3.3	.1	1.8	.0	.0	.0	.0	1.9
1-2	.1	2.1	.8	.0	.0	.0	3.1	.*	1.5	.7	.0	.0	.0	2.3
3-4	.0	1.6	1.9	.1	.0	.0	3.5	.0	.6	1.6	.2	.0	.0	2.4
5-6	.0	.6	1.0	.2	.2	.0	1.8	.0	.3	.9	.2	.0	.0	1.3
7	.0	.2	.2	.0	.0	.0	.3	.0	.*	.2	.1	.0	.0	.1
8-9	.0	.1	.0	.1	.1	.0	.3	.0	.*	.1	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.1	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.4	3.9	.4	.4	.0	12.5	.1	4.2	3.6	.5	.0	.0	8.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.3	3.4	.2	.0	.0	.0	4.8	.6	2.9	.5	.0	.0	.0	4.0	
1-2	.3	2.7	.9	.0	.0	.0	3.9	.*	2.4	1.4	.0	.0	.0	3.9	
3-4	.2	1.2	1.7	.3	.0	.0	3.3	.0	2.2	3.4	.7	.0	.0	6.2	
5-6	.0	.5	.9	.2	.1	.0	1.7	.0	.1	1.6	.6	.*	.0	2.4	
7	.0	.1	.4	.1	.1	.0	.6	.0	.1	1.0	.9	.*	.0	2.0	
8-9	.0	.2	.1	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.3	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.*	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	8.0	4.1	.6	.2	.0	14.6	.7	7.7	8.0	3.0	.4	.0	19.7	85.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	19.0	19.9	.9	.0	.0	.0	39.8	
1-2	.5	12.6	7.5	.0	.0	.0	20.7	
3-4	.2	7.5	11.9	1.7	.0	.0	21.3	
5-6	.0	1.3	6.6	1.6	.3	.0	9.9	
7	.0	.4	2.6	1.3	.1	.0	4.4	
8-9	.0	.3	.5	.9	.2	.0	2.0	
10-11	.0	.0	.4	.6	.1	.0	1.1	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.1	.1	.2	.0	.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	19.7	42.2	30.6	6.3	1.1	.0	100.0	957

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	8.6	11.2	6.7	2.6	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	515	3
6-7	.1	4.4	8.5	7.7	6.4	2.1	1.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	437	5
8-9	.1	1.3	3.2	3.5	2.6	1.5	.3	.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	6
10-11	.0	.3	.7	.9	.9	1.3	.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	7
12-13	.0	.0	.3	.5	.3	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	8
>13	.0	.0	.0	.1	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	11
INDET	8.0	.9	1.6	.9	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	2
TOTAL	183	253	377	300	175	102	50	27	31	3	0	0	0	0	0	0	0	0	0	1481	4
PCT	12.4	15.7	25.5	20.3	11.8	6.9	3.4	1.8	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1862-1973

OCTOBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	1.8	.3	.0	.0	.0	.0	3.5	.6	.6	6.8	.0	2.5	.0	86.0
NE	4.4	.0	2.4	.0	.0	.0	.0	6.8	3.2	1.0	7.8	1.0	4.4	.0	75.9
E	7.5	3.0	5.3	.0	.0	.0	.0	15.8	2.9	.2	9.6	.7	1.6	.0	69.1
SE	20.0	3.3	5.7	.0	.0	.0	.1	28.9	3.5	.6	10.8	.1	1.0	.0	55.4
S	20.1	3.4	7.3	.0	.0	.0	.4	32.7	3.2	.2	11.3	.5	1.8	.0	50.2
SW	9.8	5.6	6.4	.0	.0	.0	.0	21.8	3.0	.8	5.5	.6	1.9	.0	66.8
W	4.8	4.4	4.1	.0	.0	.0	.0	13.3	3.0	.0	7.4	.5	.8	.0	75.1
NW	3.2	2.7	.8	.0	.0	.0	.0	6.7	.6	.0	8.1	.1	.9	.3	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	.8	.0	.0	.0	.0	3.2	.8	.8	14.3	.0	1.6	.0	79.4
TOT PCT	10.3	3.5	4.3	.0	.0	.0	.1	18.1	2.5	.4	9.1	.4	1.5	*	68.1
TOT OBS	2495														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	9.3	2.7	3.6	.0	.0	.0	.1	15.4	1.9	.1	8.9	.1	2.7	.1	70.6
0600	9.7	4.1	4.1	.0	.0	.0	.0	17.8	1.7	1.1	8.4	.7	1.1	.0	69.5
1200	12.3	3.5	5.1	.0	.0	.0	.0	20.8	2.3	.3	10.4	.3	1.0	.0	64.9
1800	9.5	4.2	4.0	.0	.0	.0	.2	17.7	3.7	.2	9.9	.3	1.2	.0	67.0
TOT PCT TOT OBS	10.2 2550	3.6	4.2	.0	.0	.0	.1	18.0	2.4	.4	9.5	.4	1.5	*	67.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	3.8	2.1	.5	.1	.0		7.1	11.1		5.8	8.3	6.5	7.6	7.9	7.0	7.0	8.5
NE	.7	2.4	1.0	.1	.0	.0		4.2	9.0		3.0	3.6	2.8	5.7	3.6	8.1	4.0	6.3
E	.9	4.7	3.5	.9	.2	.0		10.2	11.8		8.5	9.4	7.9	11.7	11.9	12.4	8.6	15.2
SE	.6	5.5	7.5	3.3	.9	.2		18.0	16.1		16.1	15.4	16.4	20.7	18.0	20.4	20.3	18.0
S	.8	5.3	6.9	2.7	1.0	.2		16.8	16.0		19.0	17.2	18.4	13.4	15.5	15.0	16.8	16.7
SW	.8	4.4	4.0	1.1	.2	.1		10.8	12.8		12.6	12.0	11.6	10.1	8.7	11.0	10.4	7.6
W	1.0	5.4	4.6	1.6	.3	.0		13.0	12.7		14.1	12.9	13.4	10.4	14.4	9.0	15.1	8.9
NW	.8	6.1	5.2	2.4	.3	.0		14.9	13.5		16.4	15.6	14.8	17.1	14.1	14.0	12.8	16.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0		4.4	5.7	8.2	3.2	6.0	3.2	5.0	2.6
TOT OBS	304	998	921	336	83	11	2653		13.0		473	211	391	158	482	251	456	231
TOT PCT	11.5	37.6	34.7	12.7	3.1	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	18
N	2.3	3.4	1.2	.2	*		7.1	11.1	6.5	6.8	7.6	7.5
NE	1.5	2.3	.3	.0	.0		4.2	9.0	3.2	3.6	5.1	4.8
E	2.9	5.1	1.7	.5	.0		10.2	11.8	8.8	9.0	12.0	10.8
SE	3.0	7.8	4.9	2.0	.3		18.0	16.1	15.9	17.7	18.9	19.5
S	2.8	7.3	4.6	1.8	.5		16.8	16.0	18.3	17.0	15.3	16.7
SW	2.5	5.4	2.1	.4	.1		10.6	12.8	12.4	11.2	9.4	9.4
W	3.6	5.9	2.7	.7	.0		13.0	12.7	13.7	12.5	12.5	13.0
NW	3.6	6.4	3.9	1.0	.0		14.9	13.5	16.2	15.5	14.1	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	4.8	6.7	5.0	4.2
TOT OBS	723	1159	570	176	25	2653		13.0	484	349	733	687
TOT PCT	27.3	43.7	21.5	6.6	.9		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1862-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

				WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
HOUR	CALM	1-3	4-10	11-21	22-33	34-47				
0000	4.8	5.0	38.5	34.1	13.3	3.9	.4	13.4	100.0	684
0600	6.7	5.8	36.2	35.7	11.8	3.5	.2	12.8	100.0	549
1215	5.0	7.1	40.1	31.9	12.4	2.7	.7	12.6	100.0	723
1821	4.2	7.3	35.2	37.6	13.0	2.5	.3	13.2	100.0	687
TOT	136	168	998	921	336	83	11	13.0		2633
PCT	5.1	6.3	37.6	34.7	12.7	3.1	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	3.2	1.1	1.4	.7		3.1
NE	2.0	.3	.7	.8		3.4
E	2.8	.6	2.2	3.2		5.0
SE	1.6	1.5	4.8	9.8		6.5
S	.9	1.0	4.5	11.3		6.9
SW	1.1	1.5	3.1	5.0		6.1
W	2.9	2.6	4.0	3.8		5.1
NW	4.9	2.8	3.8	2.6		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.1	.9	2.1	1.5		4.2
TOT OBS	325	184	414	583	1506	5.4
TOT PCT	21.6	12.2	27.5	38.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.3	.4	.6	.4	.0	.0	.0	.0	4.7	
.0	.0	.1	.1	.4	.3	.0	.0	.0	.1	2.8	
.4	.0	.2	.7	1.1	1.1	.5	.1	.2	.0	4.3	
1.5	.1	1.4	2.1	3.1	3.1	1.1	.3	.1	.1	4.8	
1.8	.2	.8	2.1	3.8	3.9	.9	.5	.1	.0	3.7	
.7	.0	.2	1.2	2.4	1.7	.2	.1	.1	.0	4.0	
.6	.3	.6	.0	2.2	1.8	.3	.2	.1	.0	7.5	
.6	.0	.4	.9	1.1	1.2	.4	.0	.1	.1	9.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.7	.1	.0	.1	.5	1.1	.3	.0	.0	.0	3.9	
.97	10	60	124	227	219	56	19	12	5	677	1506
6.4	.7	4.0	8.2	15.1	14.5	3.7	1.3	.8	.3	45.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.3	2.2	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	3.6	5.9	6.1	6.1	6.1	6.1	6.1	6.1
= OR >2000	11.8	18.7	20.1	20.5	20.7	20.7	20.7	20.7
= OR >1000	19.2	31.9	34.8	35.5	35.7	35.7	35.7	35.7
= OR >600	22.3	38.1	42.3	43.5	43.8	43.9	43.9	43.9
= OR >300	22.7	39.6	45.1	47.1	47.6	47.8	47.9	47.9
= OR >150	22.8	39.9	45.6	47.7	48.3	48.4	48.5	48.5
= OR >0	23.0	41.0	47.4	50.4	52.9	53.6	54.3	55.0
TOTAL	348	620	718	763	801	812	822	833

TOTAL NUMBER OF OBS: 1514

PCT FREQ NM <5/8: 45.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
14.4	7.0	8.6	7.7	7.3	6.8	7.9	8.0	26.5	5.8	1561

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1862-1973

OCTOBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.2	.7	.5	.2	.5	.7	.0	.4	3.5	
	TOT %	.2	.1	.2	.8	.6	.3	.5	.7	.0	.4	3.8	
1/2<1	PCP	.0	.0	.1	.2	.2	.2	.1	.0	.0	.0	.8	
	NO PCP	.0	.1	.5	.5	.6	.2	.3	.2	.0	.1	2.6	
	TOT %	.0	.1	.6	.7	.7	.4	.4	.3	.0	.1	3.4	
1<2	PCP	.0	.0	.3	.7	.6	.1	.0	.0	.0	.0	1.8	
	NO PCP	.1	.1	.0	.3	.4	.2	.1	.1	.0	.0	1.3	
	TOT %	.1	.1	.3	1.0	1.0	.3	.1	.1	.0	.0	3.1	
2<5	PCP	.0	.1	.2	1.2	1.5	.6	.4	.2	.0	.1	4.3	
	NO PCP	.2	.2	.4	.7	.6	.2	.2	.2	.0	.0	2.6	
	TOT %	.2	.3	.6	1.9	2.1	.9	.6	.4	.0	.1	6.9	
5<10	PCP	.2	.2	.8	2.5	2.7	1.2	.7	.4	.0	.0	8.6	
	NO PCP	2.4	.9	2.3	4.1	3.2	2.7	3.1	3.3	.0	.6	22.5	
	TOT %	2.6	1.1	3.1	6.6	5.9	3.8	3.7	3.7	.0	.6	31.1	
10+	PCP	.1	.0	.2	.6	.5	.2	.3	.4	.0	.0	2.4	
	NO PCP	4.0	2.6	4.9	6.5	6.2	4.7	7.3	9.4	.0	3.8	49.7	
	TOT %	4.1	2.6	5.1	7.1	6.7	4.9	7.6	9.8	.0	3.8	51.7	
TOT OBS													2494
TOT PCT		7.2	4.1	9.9	18.1	17.0	10.5	13.2	14.9	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.2	.0	.5	1.0	
	4-10	.2	.0	.2	.4	.3	.1	.3	.4	.0	.0	1.9	
	11-21	.0	.0	.0	.2	.1	.1	.2	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.3	.8	.6	.3	.5	.7	.0	.5	3.8	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.1	.1	.0	.1	.4	
	4-10	.0	.1	.4	.2	.2	.2	.2	.2	.0	.0	1.4	
	11-21	.0	.0	.2	.3	.4	.2	.2	.2	.0	.0	1.3	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.6	.7	.7	.4	.4	.3	.0	.1	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	4-10	.1	.1	.1	.2	.2	.1	.1	.1	.0	.0	1.1	
	11-21	.0	.0	.2	.5	.4	.1	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.4	.3	.1	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.3	1.2	1.0	.3	.2	.2	.0	.0	3.5	
2<5	0-3	.0	.1	.0	.1	.1	.1	.1	.0	.0	.2	.6	
	4-10	.1	.2	.2	.3	.4	.4	.2	.1	.0	.0	1.9	
	11-21	.1	.1	.3	.8	.9	.3	.2	.2	.0	.0	2.9	
	22+	.1	.0	.1	.9	.7	.2	.1	.1	.0	.0	2.3	
	TOT %	.3	.3	.7	2.1	2.1	.9	.7	.3	.0	.2	7.7	
5<10	0-3	.3	.2	.3	.2	.3	.4	.4	.3	.0	.6	2.9	
	4-10	1.2	.6	1.3	1.8	1.7	1.5	1.0	1.3	.0	.0	10.4	
	11-21	.9	.2	1.1	2.7	2.1	1.4	1.5	1.4	.0	.0	11.3	
	22+	.1	.0	.4	1.7	1.7	.4	.8	.7	.0	.0	5.9	
	TOT %	2.5	1.0	3.0	6.4	5.8	3.7	3.6	3.6	.0	.6	30.4	
10+	0-3	.2	.2	.5	.2	.2	.2	.4	.3	.0	3.8	1.0	
	4-10	2.1	1.5	2.3	2.6	2.3	2.1	3.6	3.9	.0	.0	20.8	
	11-21	1.2	.7	1.8	3.1	2.9	1.8	2.3	3.3	.0	.0	17.6	
	22+	.4	.1	.6	1.2	.9	.7	1.0	1.9	.0	.0	6.9	
	TOT %	4.0	2.6	5.2	7.1	6.6	4.8	7.6	9.6	.0	3.8	51.3	
TOT OBS													2563
TOT PCT		7.2	4.2	10.1	18.3	16.8	10.5	13.0	14.8	.0	5.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1862-1973AREA 0041 VANCOUVER IS. SW
48.3N 126.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	6.3	.5	5.3	7.2	12.7	14.6	3.0	1.4	.9	.5	52.3	47.7	432
06009	7.3	.3	2.8	7.0	14.4	12.2	3.4	.9	1.5	.3	50.2	49.8	327
12015	7.7	.8	2.9	7.7	17.5	15.1	4.8	1.6	.0	.3	58.2	41.8	378
18021	4.5	1.0	4.5	10.3	14.8	15.8	3.5	1.0	.8	.3	56.3	43.8	400
TOT	98	10	61	124	227	223	96	19	12	5	835	702	1537
PCT	6.4	.7	4.0	8.1	14.8	14.5	3.6	1.2	.8	.3	54.3	45.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	3.1	3.8	3.6	6.7	28.3	54.5	686
06009	4.9	2.3	4.0	6.9	34.8	47.1	554
12015	4.0	4.5	2.9	7.6	34.1	46.9	719
18021	4.2	3.0	3.9	9.1	26.3	53.4	659
TOT	105	91	94	199	805	1324	2618
PCT	4.0	3.5	3.6	7.6	30.7	50.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	6.4	12.3	22.2	31.1	46.7	424
06009	7.5	10.9	22.1	29.3	48.6	321
12015	7.7	12.0	24.3	34.7	41.1	375
18021	4.6	10.9	25.4	32.2	42.4	394
TOT	98	175	356	483	675	1514
PCT	6.5	11.6	23.5	31.9	44.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.0	.0	.4	.0	.1	8	.5
60/64	.0	.0	.1	.1	.3	1.0	1.8	1.1	68	4.4
59/59	.0	.0	.0	.4	2.6	5.8	10.0	13.6	496	32.4
50/54	.0	.1	.0	.5	3.0	6.2	16.8	12.1	593	38.7
49/49	.0	.0	.0	.2	.5	2.5	8.0	7.6	288	18.8
40/44	.0	.0	.1	.4	.1	.2	1.0	3.3	79	5.2
39/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	2	4	23	99	248	577	580	1333	100.0
PCT	.0	.1	.3	1.5	6.5	18.2	37.6	37.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
69/69	.0	.1	.1	.0	.0	.1	.1	.0	.0	.2
60/64	.3	.1	.3	.8	.7	.8	.7	.4	.0	.3
59/59	2.6	.9	2.4	6.2	7.3	4.3	3.9	3.8	.0	.9
50/54	3.2	1.9	4.0	5.8	4.8	3.8	5.8	7.9	.0	1.4
49/49	1.1	1.1	2.3	3.5	3.2	1.8	2.4	2.5	.0	.8
40/44	.3	.7	.8	1.1	1.1	.1	.4	.5	.0	.1
39/39	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
TOTAL	7.6	4.6	9.9	17.7	17.1	10.9	13.2	15.1	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	64	61	56	46	43	36	53.7	701
06009	65	61	59	53	45	40	38	52.7	559
12015	66	60	58	52	44	41	40	51.9	744
18021	72	64	61	56	46	43	40	53.5	691
TOT	74	63	60	53	45	41	36	52.9	2695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	9.0	20.7	38.2	30.3	84	445		
06009	.0	2.6	4.3	12.2	38.0	42.9	86	303		
12015	.0	1.8	3.1	11.7	40.3	43.1	87	452		
18021	.0	1.4	9.8	19.3	34.4	35.2	84	358		
TOT	0	29	102	231	590	586	86	1558		

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PERIOD: (PRIMARY) 1936-1973
(OVER-ALL) 1862-1973AREA 0041 VANCOUVER IS. SW
48.5N 126.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	7	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0	.0	16	.0	.7
7/8	.0	.0	.0	.0	.0	.4	.8	.4	.2	.0	.0	40	.1	1.7
6	.0	.0	.0	.0	.1	.7	.8	.2	.2	.0	.0	46	.2	1.8
5	.0	.0	.0	.0	.1	1.3	1.5	.3	.0	.0	.0	72	.3	2.9
4	.0	.0	.0	.0	.7	1.5	1.1	.3	.0	.0	.0	81	.3	3.3
3	.0	.0	.0	.0	.5	2.6	1.7	.1	.0	.0	.0	111	.5	4.4
2	.0	.0	.0	.0	.2	1.6	4.0	2.3	.3	.0	.0	189	1.0	7.4
1	.0	.0	.0	.0	.3	1.9	5.5	2.2	.2	.0	.0	230	1.0	9.1
0	.0	.0	.0	.0	.8	4.7	5.2	2.6	.0	.0	.0	303	1.5	11.9
-1	.0	.0	.0	.0	.7	4.0	4.3	1.7	.1	.0	.0	245	1.2	9.5
-2	.0	.0	.0	.1	1.4	4.5	4.0	.8	.1	.0	.0	248	.7	10.2
-3	.0	.0	.0	.1	1.5	3.4	2.3	.5	.0	.0	.0	180	.9	7.0
-4	.0	.0	.0	.1	1.7	2.7	1.8	.3	.0	.0	.0	132	.7	5.9
-5	.0	.0	.0	.1	2.9	1.9	1.2	.2	.0	.0	.0	144	.5	5.9
-6	.0	.0	.0	.7	1.2	.7	.2	.0	.0	.0	.0	64	.2	2.6
-7/-8	.0	.2	1.7	1.2	1.0	.3	.0	.0	.0	.0	.0	99	.4	4.0
-9/-10	.0	.1	.6	.3	.2	.1	.0	.0	.0	.0	.0	27	.1	1.1
-11/-13	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	11	.0	.5
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	12	75	286	641	802	57	11	3	1	2272	220	9.7	20.3
PCT	.0	.5	3.3	12.6	28.2	35.3	16.9	2.5	.5	.1	100.0	9.7	90.3	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.8	.0	.0	.0	.0	1.9	.0	2.4	.0	.0	.0	.0	2.4
1-2	.1	.7	.2	.0	.0	.0	1.0	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.2	.3	.1	.0	.0	.6	.0	.3	.1	.1	.0	.0	.5
5-6	.0	.1	.4	.1	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	1.5	.7	.1	.0	5.1	.0	3.3	.4	.1	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.6	.1	2.0	.1	.0	.0	.0	2.2
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.1	2.0	.0	.0	.0	3.0
3-4	.0	.1	.9	.2	.0	.0	1.2	.0	1.0	1.8	1.0	.0	.0	3.8
5-6	.1	.0	.6	.1	.2	.0	1.0	.0	.3	1.9	1.0	.2	.0	3.4
7	.0	.0	.1	.1	.1	.0	.3	.0	.0	1.8	1.1	.0	.0	2.9
8-9	.0	.0	.1	.1	.1	.0	.3	.0	.0	.1	.6	.1	.0	.8
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.5	.4	.0	1.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2	.1	.5
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	2.7	.6	.7	.0	6.7	.1	4.4	7.9	4.7	1.1	.1	18.2

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0041 VANCOUVER IS. SW
48.3N 126.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.4	.3	2.1	.0	.0	.0	.0	2.1
1-2	.1	2.3	.9	.0	.0	.0	3.3	.2	.4	.5	.0	.0	.0	1.1
3-4	.0	2.2	3.3	1.1	.0	.0	6.5	.0	1.4	1.3	.5	.0	.0	3.1
5-6	.0	.5	1.7	.9	.2	.0	3.4	.0	.4	.8	.5	.0	.0	1.7
7	.0	.1	.6	.6	.1	.0	1.4	.0	.2	.6	.3	.0	.0	1.2
8-9	.0	.1	.4	.3	.1	.0	.9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.3	.2	.0	.5	.0	.0	.2	.2	.0	.0	.5
12	.0	.0	.0	.2	.2	.1	.5	.0	.1	.0	.1	.0	.0	.2
13-16	.0	.0	.1	.0	.3	.1	.5	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.0	7.2	3.6	1.4	.3	20.0	.3	6.6	3.9	1.8	.0	.0	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.9	.0	.0	.0	.0	2.3	.3	2.0	.0	.0	.0	.0	2.4	
1-2	.2	2.0	.8	.0	.0	.0	3.0	.0	1.7	.7	.0	.0	.0	2.4	
3-4	.0	1.8	1.2	.4	.0	.0	3.4	.0	.8	1.1	.6	.0	.0	2.5	
5-6	.1	.9	1.1	.4	.0	.0	2.5	.0	.5	1.1	.5	.0	.0	2.1	
7	.0	.0	.3	.4	.0	.0	.7	.0	.1	.3	.3	.1	.0	.9	
8-9	.0	.1	.1	.2	.0	.0	.5	.0	.0	.2	.6	.1	.0	.9	
10-11	.0	.0	.0	.3	.1	.0	.5	.0	.1	.1	.1	.0	.0	.4	
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.6	3.6	2.1	.3	.0	13.4	.3	5.3	3.7	2.2	.3	.0	11.8	89.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.6	15.6	.3	.0	.0	.0	27.5	
1-2	.8	9.5	6.4	.0	.0	.0	16.7	
3-4	.0	7.7	9.9	4.0	.0	.0	21.6	
5-6	.2	2.7	7.7	3.3	.6	.0	14.8	
7	.0	.5	4.0	3.2	.3	.0	8.0	
8-9	.0	.2	1.6	1.9	.5	.0	4.2	
10-11	.0	.1	.5	1.6	.9	.0	3.1	
12	.0	.1	.2	.8	.6	.2	1.9	
13-16	.0	.0	.3	.2	.6	.1	1.3	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.2	.2	.0	.5	
23-25	.0	.0	.0	.1	.1	.1	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.6	36.5	30.9	15.7	3.9	.5	100.0	880

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	6.0	7.9	5.9	2.9	1.0	.7	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	4
6-7	.1	3.5	7.3	6.9	9.0	5.0	2.4	.8	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	546	6
9-9	.0	2.2	2.5	3.4	3.6	2.8	2.2	1.5	1.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	286	7
10-11	.0	.2	.1	.4	.6	1.0	1.0	.8	.7	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	77	10
12-13	.0	.0	.1	.3	.3	.3	.3	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	30	9
>13	.0	.0	.0	.1	.0	.1	.1	.0	.3	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	16	15
INDEX	3.0	.1	.6	.7	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	3
TOTAL	80	201	267	254	243	151	98	53	56	9	9	9	0	0	0	0	0	0	0	1430	6
PCT	5.6	14.1	18.7	17.8	17.0	10.6	6.9	3.7	3.9	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1857-1972

NOVEMBER

AREA 0041 VANCOUVER IS. SW
48.4N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.7	1.0	5.9	.0	.0	.0	.0	9.0	.4	.0	4.5	.0	1.7	.0	84.4
NE	7.6	2.6	3.0	.0	.0	.0	.0	12.7	1.6	.0	2.8	.0	.2	.0	82.7
E	13.7	2.6	4.8	.0	.8	.0	.0	21.5	1.1	.0	3.4	.0	1.3	.0	72.7
SE	26.7	4.7	8.0	.0	1.5	.0	.0	39.2	3.2	.2	5.4	.2	1.5	.1	50.5
S	22.3	3.8	10.3	.0	.3	.0	.4	34.1	2.5	.8	7.6	.0	1.1	2.0	52.5
SW	14.0	4.5	7.5	.0	.0	.0	.5	24.5	2.8	.3	6.0	.0	1.5	.0	64.8
W	8.2	3.2	4.2	.0	.3	.0	.7	15.2	3.1	.0	4.2	.3	1.0	.0	76.1
NW	4.2	1.9	5.8	.0	.0	.3	.1	11.4	.7	.0	2.7	.3	1.1	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.1	.0	.0	.0	.0	5.1	.0	.0	2.6	.0	.0	.0	92.3
TOT PCT	14.0	3.2	6.6	.0	.5	*	.2	23.1	2.1	.2	4.7	.1	1.2	.3	68.4
TOT OBS:	2637														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DR7L	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	14.5	3.7	5.7	.0	.4	.0	.4	23.3	2.1	.1	6.2	.1	.9	.4	66.8
0609	13.3	3.5	9.3	.0	.4	.0	.2	25.3	2.4	.2	4.7	.0	.5	.2	66.8
1205	15.1	2.0	5.8	.0	.3	.0	.3	22.6	2.0	.4	3.8	.1	1.8	.3	69.1
18021	13.1	3.5	6.2	.0	.7	.1	.0	21.5	1.9	.1	5.6	.1	1.5	.3	68.9
TOT PCT	14.1	3.2	6.6	.0	.4	*	.2	23.1	2.1	.2	5.1	.1	1.2	.3	68.0
TOT OBS:	2695														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.6	2.8	.6	.2	.0		6.7	13.0		8.2	9.2	5.2	5.1	4.7	6.5	8.3	6.1
NE	.5	2.4	1.7	.3	.2	.0		5.1	11.5		5.5	5.6	5.3	6.7	4.5	6.5	3.5	4.4
E	.5	5.3	5.9	1.8	.4	*		14.0	14.2		12.2	15.5	12.7	21.2	11.6	18.5	11.3	15.5
SE	.3	3.9	7.3	5.4	1.4	.1		18.3	18.9		18.1	16.1	16.5	16.0	20.7	17.7	17.6	22.1
S	.4	3.5	6.2	3.4	1.1	.1		14.7	17.7		16.7	11.8	15.7	12.6	13.8	12.7	16.4	15.0
SW	.6	3.9	4.3	1.8	.3	*		11.0	14.4		9.3	13.9	14.2	10.4	9.6	9.4	10.8	11.3
W	.6	4.4	6.4	2.7	.4	.1		14.6	15.6		14.8	12.6	17.0	13.1	16.9	14.5	14.8	10.5
NW	.6	3.7	5.9	3.0	.7	*		13.9	16.6		13.9	14.1	11.3	13.8	14.6	13.4	13.4	14.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.4	1.1	2.0	1.0	3.6	.7	1.7	.6
TOT OBS	155	827	1129	526	129	11	2777		15.7		505	266	355	206	446	271	408	320
TOT PCT	5.6	29.8	40.7	18.9	4.6	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.6	3.2	1.4	.4	.1			6.7	13.0		8.5	5.2	5.4	7.3	
NE	1.7	2.5	.6	.3	*			5.1	11.5		5.5	5.8	5.2	3.9	
E	2.1	7.4	3.6	.8	.1			14.0	14.2		13.3	15.9	14.2	13.1	
SE	1.8	6.5	6.5	3.0	.5			18.3	18.9		17.4	16.3	19.6	19.6	
S	1.9	5.8	4.7	2.0	.3			14.7	17.7		15.0	14.6	13.4	15.8	
SW	1.9	5.2	3.2	.7	.1			11.0	14.4		10.9	12.8	9.5	11.1	
W	2.0	6.3	5.1	.9	.2			14.6	15.6		14.0	15.6	16.0	12.9	
NW	1.8	5.7	4.6	1.6	.2			13.9	16.6		14.0	12.3	14.1	15.0	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.7							1.7	.0		1.3	1.6	2.5	1.2	
TOT OBS	456	1185	825	268	43	2777			15.7		771	561	717	728	
TOT PCT	16.4	42.7	29.7	9.7	1.5			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1857-1972

NOVEMBER

AREA 0041 VANCOUVER IS. SW
48.4N 120.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.3	3.9	30.2	42.4	16.5	4.8	.9	15.7	100.0	771
06009	1.6	4.3	29.4	41.5	20.3	2.7	.2	15.2	100.0	561
12015	2.5	3.5	31.8	37.5	19.7	4.9	.1	15.5	100.0	717
18021	1.2	4.1	27.6	41.2	19.8	5.8	.3	16.2	100.0	728
TOT	46	109	827	1129	526	129	11	15.7		2777
PCT	1.7	3.9	29.8	40.7	18.9	4.6	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.8	1.1	1.9	1.7		4.8
NE	1.3	.8	1.3	1.3		4.6
E	2.6	1.2	3.9	5.8		5.7
SE	1.4	.6	4.1	11.5		6.9
S	.9	1.2	4.3	8.5		6.8
SW	1.4	1.4	3.2	5.5		6.0
W	3.5	2.8	5.2	4.3		5.0
NW	3.6	2.7	4.2	3.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.6	.9		3.6
TOT OBS	233	166	395	591	1385	5.7
TOT PCT	16.8	12.0	28.5	42.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.1	.5	1.0	.4	.1	.0	.0	.1	3.9	
NE	.0	.0	.0	.4	.4	.3	.3	.1	.2	.1	3.1	
E	.7	.0	.1	1.2	2.3	1.7	.9	.5	.3	.1	5.6	
SE	1.7	.6	1.1	1.5	4.5	1.7	.8	.5	.2	.1	6.9	
S	1.2	.0	.4	2.1	3.5	1.6	1.0	.6	.2	.0	4.2	
SW	.4	.1	.6	1.1	3.1	1.0	.4	.1	.0	.0	4.7	
W	.6	.0	.5	.8	2.5	1.3	1.0	.3	.1	.0	8.6	
NW	.1	.1	.5	1.4	1.8	.7	.8	.2	.0	.0	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	1.0	.2	.0	.1	.0	.0	.7	
TOT OBS	68	13	48	127	279	123	74	32	14	5	602	1385
TOT PCT	4.9	.9	3.5	9.2	20.1	8.9	5.3	2.3	1.0	.4	43.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >4000	2.7	3.6	3.7	3.7	3.7	3.7	3.7	3.7
= OR >3500	7.0	8.8	9.1	9.1	9.1	9.1	9.1	9.1
= OR >2000	12.9	17.3	18.0	18.0	18.0	18.0	18.0	18.0
= OR >1000	23.4	34.6	37.2	37.5	37.7	37.8	37.8	37.8
= OR >600	27.1	41.9	45.4	46.4	46.7	46.9	46.9	46.9
= OR >500	27.8	44.2	48.2	49.7	50.1	50.3	50.3	50.3
= OR >150	28.0	44.6	49.0	50.5	51.0	51.3	51.3	51.3
= OR >0	28.1	45.6	51.1	53.6	55.1	56.1	56.2	56.2
TOTAL	391	634	711	746	766	780	781	782

TOTAL NUMBER OF OBS: 1391

PCT FREQ NM <5/8: 43.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
10.6	9.0	11.8	9.6	6.6	5.4	9.1	8.7	28.9	4.3	1452

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1857-1972

NOVEMBER

AREA 0041 VANCOUVER IS. SW
48.4N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.2	.1	.2	.2	*	.0	.0	.8	
	NO PCP	*	.0	.2	.3	.2	.3	.3	.1	.0	*	1.4	
	TOT %	*	.0	.2	.5	.3	.5	.5	.2	.0	*	2.2	
1/2<1	PCP	.0	.1	.3	.9	.3	.2	*	*	.0	.0	1.9	
	NO PCP	.1	*	.1	.3	.4	.2	.1	.2	.0	.0	1.4	
	TOT %	.1	.2	.5	1.2	.7	.4	.1	.2	.0	.0	3.3	
1<2	PCP	.0	*	.3	.6	.6	.3	.2	.1	.0	.0	2.2	
	NO PCP	*	.0	.0	.1	.1	.1	.1	.0	.0	.0	.4	
	TOT %	*	*	.3	.7	.8	.4	.3	.1	.0	.0	2.6	
2<5	PCP	.2	.2	.6	1.5	.9	.4	.3	.2	.0	.0	4.3	
	NO PCP	.1	.1	.2	.5	.8	.4	.4	.3	.0	.0	2.9	
	TOT %	.3	.3	.8	2.0	1.7	.8	.7	.5	.0	.0	7.1	
5<10	PCP	.3	.2	1.2	2.7	2.3	1.3	.7	.9	.0	.1	9.7	
	NO PCP	1.9	.9	3.3	3.7	3.2	2.5	1.9	3.2	.0	.1	20.7	
	TOT %	2.2	1.1	4.5	6.4	5.5	3.7	2.6	4.1	.0	.2	30.4	
10+	PCP	.1	.1	.5	1.1	.9	.4	.7	.4	.0	.0	4.3	
	NO PCP	4.0	3.1	7.1	6.1	5.3	4.9	9.7	8.7	.0	1.2	50.1	
	TOT %	4.1	3.2	7.6	7.2	6.2	5.3	10.5	9.1	.0	1.2	54.4	
TOT OBS													2631
TOT PCT		6.8	4.8	13.9	18.0	15.0	11.1	14.8	14.1	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
	4-10	*	.0	.1	.1	.1	.4	.4	.1	.0	*	1.1	
	11-21	.0	.0	.1	.3	.1	.1	.2	*	.0	*	.6	
	22+	.0	.0	*	.1	.1	*	*	.1	.0	*	.3	
	TOT %	*	.0	.2	.5	.3	.5	.5	.2	.0	*	2.2	
1/2<1	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.3	.1	.2	.1	.1	.0	.0	1.0	
	11-21	.0	*	.1	.3	.4	.1	*	.1	.0	.0	1.0	
	22+	.0	.0	.3	.7	.2	.1	*	*	.0	.0	1.3	
	TOT %	.1	.2	.5	1.2	.7	.4	.1	.2	.0	.0	3.3	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	4-10	*	*	.1	.1	.1	*	.1	.0	.0	*	.5	
	11-21	.0	.0	.1	.2	.3	.2	.2	*	.0	*	1.0	
	22+	.0	.0	.1	.6	.3	.2	*	.1	.0	*	1.3	
	TOT %	*	*	.4	.8	.8	.4	.3	.1	.0	*	2.9	
2<5	0-3	.0	.1	*	.1	.1	.1	.1	.1	.0	.0	.5	
	4-10	.1	.1	.3	.3	.3	.3	.2	.2	.0	.0	1.7	
	11-21	.1	.1	.2	.6	.7	.3	.3	.3	.0	.0	2.5	
	22+	*	*	.4	1.1	.6	.2	.3	.2	.0	.0	2.8	
	TOT %	.3	.3	.9	2.0	1.7	.8	.9	.6	.0	.0	7.5	
5<10	0-3	.2	.1	.1	.1	.2	.3	.2	.1	.0	.2	1.5	
	4-10	.7	.3	1.7	1.3	.9	1.0	.7	1.1	.0	.0	7.7	
	11-21	.9	.5	2.1	2.4	2.2	1.4	1.1	2.0	.0	.0	12.6	
	22+	.3	.1	.6	2.6	2.2	1.0	.6	.8	.0	.0	8.2	
	TOT %	2.2	1.1	4.5	6.3	5.4	3.7	2.6	4.1	.0	.2	30.0	
10+	0-3	.3	.3	.4	.1	.1	.2	.4	.4	.0	1.2	3.1	
	4-10	1.6	1.8	3.0	2.0	2.0	2.0	3.0	2.3	.0	.0	17.7	
	11-21	1.7	1.1	3.4	3.6	2.7	2.4	4.9	3.6	.0	.0	23.3	
	22+	.5	.3	.9	1.5	1.3	.7	2.2	2.6	.0	.0	10.0	
	TOT %	4.1	3.4	7.6	7.3	6.1	5.2	10.3	8.9	.0	1.2	54.1	
TOT OBS													2687
TOT PCT		6.8	4.9	14.1	18.1	14.9	11.0	14.7	14.0	.0	1.3	100.0	

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1857-1972

NOVEMBER

AREA 0041 VANCOUVER IS. SW
48.4N 120.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 793	NM <5/8 ANY HGT	TOTAL OBS
00003	6.3	1.2	3.7	10.5	19.4	7.5	6.3	2.1	.9	.0	58.1	41.9	427
06009	5.1	.0	5.5	7.2	18.5	7.2	3.8	1.7	1.0	.7	50.7	49.3	292
12015	4.6	.3	2.6	8.8	20.2	8.3	3.7	3.1	1.4	.9	53.8	46.2	351
18021	3.4	2.0	2.2	8.7	20.7	11.8	6.7	2.2	.6	.0	59.3	41.7	357
TOT	70	13	49	128	282	124	75	33	14	5	793	634	1427
PCT	4.9	.9	3.4	9.0	19.8	8.7	5.3	2.3	1.0	.4	55.6	44.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.7	4.3	3.4	9.4	29.8	50.5	769
06009	2.5	2.7	3.0	6.2	30.7	55.0	564
12015	2.1	4.4	1.8	7.2	31.1	53.4	726
18021	2.2	2.8	3.7	6.9	29.6	55.4	686
TOT	65	99	78	206	831	1466	2745
PCT	2.4	3.6	2.8	7.5	30.3	53.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.2	12.4	26.2	33.3	40.5	420
06009	5.3	11.0	23.3	30.0	46.6	283
12015	4.7	8.8	22.0	34.0	44.0	341
18021	3.5	8.4	19.3	40.3	40.3	347
TOT	69	142	318	481	592	1391
PCT	5.0	10.2	22.9	34.6	42.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.1	.1	.1	.0	5	.3
55/59	.0	.0	.0	.3	.5	1.2	2.3	1.6	106	5.8
50/54	.0	.1	.1	.7	4.1	5.7	17.0	15.2	777	42.8
45/49	.0	.0	.0	.4	3.3	9.1	13.8	11.6	695	38.2
40/44	.0	.0	.1	.1	.9	1.7	2.3	3.8	160	8.8
35/39	.0	.0	.0	.1	.3	.3	1.1	1.4	57	3.1
30/34	.0	.0	.0	.0	.1	.2	.3	.3	16	.9
25/29	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	2	28	167	333	669	617	1817	100.0
PCT	.0	.1	.1	1.5	9.2	18.3	36.8	34.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0
55/59	.3	.3	1.0	1.4	1.3	.9	.6	.1	.0	.0
50/54	2.7	1.3	3.3	7.4	8.0	6.1	7.5	6.0	.0	.5
45/49	2.8	1.5	4.7	6.7	4.9	4.0	6.4	6.7	.0	.6
40/44	.6	.7	2.1	1.0	.8	.9	1.4	1.3	.0	.1
35/39	.3	.3	.8	.3	.3	.2	.5	.3	.0	.0
30/34	.0	.1	.2	.4	.8	.0	.0	.1	.0	.0
25/29	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	6.7	4.3	12.1	17.4	15.3	12.1	16.4	14.5	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	57	55	50	40	31	28	48.8	781
06009	58	57	55	50	41	30	28	48.8	571
12015	59	56	54	49	39	30	27	48.0	739
18021	66	58	55	50	40	30	28	49.1	733
TOT	66	57	55	49	40	31	27	48.7	2824

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	10.1	17.8	37.0	33.6	84	537
06009	.0	1.4	7.7	20.1	38.7	32.1	85	349
12015	.0	1.7	6.6	15.7	37.4	38.6	86	484
18021	.0	2.0	11.8	20.7	34.3	31.2	83	449
TOT	0	31	168	338	876	626	85	1839

NOVEMBER

PERIOD: (PRIMARY) 1936-1972
(OVER-ALL) 1857-1972AREA 0041 VANCOUVER IS. SW
48.4N 126.1W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	TOT	W FOG	NO FC
	28	32	36	40	44	48	52	56	60	64	68			
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
9/10	.0	.0	.0	.0	.0	.0	.1	*	*	*	.0	5	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.2	.2	*	.0	.0	12	.0	.5
6	.0	.0	.0	.0	.0	.3	.1	.3	.1	.0	.0	19	*	.7
5	.0	.0	.0	.0	.0	.1	.4	.9	.2	.0	.0	40	.1	1.5
4	.0	.0	.0	.0	.0	.3	1.4	1.0	.3	.0	.0	74	.2	2.8
3	.0	.0	.0	.0	.1	.2	1.6	1.7	.1	.0	.0	92	.4	3.4
2	.0	.0	.0	.0	.0	.7	3.4	2.4	.4	.0	.0	169	1.0	5.9
1	.0	.0	.0	.0	.0	.9	4.5	2.3	.1	.0	.0	190	.7	7.1
0	.0	.0	.0	.0	.1	2.0	7.5	2.2	.0	.0	.0	290	.7	11.2
-1	.0	.0	.0	.0	.2	2.0	7.0	1.2	*	.0	.0	254	.5	9.8
-2	.0	.0	.0	.0	.3	5.0	7.3	.8	.0	.0	.0	327	.5	12.9
-3	.0	.0	.0	.0	.6	3.8	4.3	.3	.0	.0	.0	221	.5	8.5
-4	.0	.0	.0	*	.8	4.5	2.7	.2	.0	.0	.0	199	.2	8.0
-5	.0	.0	.0	.1	1.1	3.6	1.6	.1	.0	.0	.0	158	.3	6.1
-6	.0	.0	.0	.1	.8	2.5	.6	.0	.0	.0	.0	100	.0	4.1
-7/-8	.0	.0	.0	.7	1.6	2.2	.7	*	.0	.0	.0	126	.1	5.1
-9/-10	.0	.0	.1	.6	1.1	.5	*	.0	.0	.0	.0	58	*	2.3
-11/-13	.0	.1	.9	.8	.4	.2	*	.0	.0	.0	.0	54	*	2.2
-14/-16	.0	.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	32	*	1.3
-17/-19	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	.7
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-23/-25	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.2
TOTAL	8	29	36	63	170	708	338	33	1	1		2447	130	2317
PCT	.3	1.2	1.5	2.6	6.9	28.9	43.3	13.8	1.3	*	*	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.0	.1	.0	.0	.0	1.3	.4	2.1	.0	.0	.0	.0	2.5
1-2	.1	.6	.5	.0	.0	.0	1.3	.0	.7	.7	.0	.0	.0	1.4
3-4	.0	.4	.5	.0	.0	.0	.9	.0	.3	.1	.0	.0	.0	.5
5-6	.0	.1	.1	.4	.0	.0	.6	.0	.0	.3	.2	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	1.3	.8	.1	.0	4.7	.4	3.1	1.2	.2	.0	.0	4.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	3.5	.1	.0	.0	.0	3.8	.1	1.6	.2	.0	.0	.0	1.9
1-2	.0	.8	1.1	.0	.0	.0	1.8	.0	1.2	1.4	.0	.0	.0	2.6
3-4	.0	.7	1.1	.3	.0	.0	2.0	.0	.5	2.1	1.2	.0	.0	3.8
5-6	.0	.3	1.3	.4	.0	.0	2.0	.0	.0	1.0	1.9	.4	.0	3.2
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	1.7	.9	.2	.0	2.8
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.3	1.3	.6	.0	2.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	.6	.0	.0	.9
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.7	*	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.2	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	4.8	1.2	.0	.0	11.3	.1	3.5	6.9	7.1	1.5	.0	19.2

PERIOD: (OVER-ALL) 1963-1972

NOVEMBER

AREA 0041 VANCOUVER IS. SW
48.4N 126.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.2	.2	.0	.0	.0	1.5		.0	1.3	.0	.0	.0	.0	1.3		
1-2	.1	1.2	2.0	.0	.0	.0	3.3		.3	1.5	1.1	.0	.0	.0	2.9		
3-4	.0	1.2	1.8	1.5	.0	.0	4.5		.0	.9	1.1	.6	.0	.0	2.6		
5-6	.0	.3	1.9	1.5	.4	.0	4.0		.0	.0	1.4	.8	.3	.0	2.5		
7	.0	.0	.6	.7	.3	.0	1.7		.0	.1	.4	1.0	.1	.0	1.5		
8-9	.0	.0	.3	.4	.5	.0	1.2		.0	.0	.5	.0	.1	.1	.7		
10-11	.0	.0	.1	.3	.4	.0	.8		.0	.0	.3	.1	.0	.0	.3		
12	.0	.0	.0	.1	.1	.0	.2		.0	.0	.0	.1	.0	.0	.1		
13-16	.0	.0	.0	.0	.4	.1	.5		.0	.0	.0	.1	.1	.0	.3		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.1	3.9	7.0	4.3	2.1	.1	17.8		.3	3.8	4.8	2.3	.7	.1	12.4		

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.3	.0	.0	.0	.0	1.3		.1	.7	.0	.0	.0	.0	.7		
1-2	.0	1.0	.6	.0	.0	.0	1.6		.1	1.4	.5	.0	.0	.0	2.0		
3-4	.1	1.9	1.7	1.0	.0	.0	4.6		.1	1.1	2.1	.1	.0	.0	3.3		
5-6	.0	.4	2.0	.8	.2	.0	3.3		.0	.0	1.1	.9	.2	.0	2.2		
7	.0	.1	.8	.7	.0	.0	1.7		.0	.2	.5	.6	.0	.0	1.3		
8-9	.0	.1	.1	.4	.0	.0	.7		.0	.0	.3	.3	.0	.0	.6		
10-11	.0	.0	.2	.2	.1	.0	.5		.0	.0	.3	.3	.0	.0	.5		
12	.3	.0	.1	.1	.1	.0	.6		.0	.0	.0	.0	.0	.0	.1		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	5.1	5.8	3.1	.5	.0	14.8		.3	3.4	4.5	2.4	.3	.0	11.0	96.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.1	13.0	.7	.0	.0	.0	18.7	
1-2	.7	8.3	7.9	.0	.0	.0	16.9	
3-4	.1	6.9	10.6	4.6	.0	.0	22.3	
5-6	.0	1.1	9.2	6.6	1.4	.0	18.3	
7	.0	.4	4.5	4.4	.6	.0	9.9	
8-9	.0	.1	2.1	2.4	1.3	.1	6.1	
10-11	.0	.1	.8	2.0	.6	.0	3.5	
12	.3	.0	.3	1.1	.3	.0	2.0	
13-16	.0	.0	.1	.8	.8	.1	2.0	
17-19	.0	.0	.1	.0	.3	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	30.0	36.3	22.0	5.2	.3	100.0	710

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.9	7.2	5.1	2.5	.9	1.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	5
6-7	.0	3.4	7.6	9.3	4.7	1.7	1.3	1.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	443	6
8-9	.0	1.8	3.1	3.7	4.4	2.1	1.6	.9	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	256	7
10-11	.0	.2	.8	.5	1.2	1.9	2.2	1.6	2.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	142	10
12-13	.0	.0	.2	.1	.3	.2	.8	.7	.5	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	45	13
13	.0	.0	.0	.2	.5	.2	.5	.2	.6	.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	36	14
INDET	1.4	.5	1.0	.9	1.1	.4	.9	.2	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	87	6
TOTAL	22	125	236	254	148	132	108	67	81	22	19	10	2	0	0	0	0	0	0	1266	7
PCT	1.7	9.7	19.9	19.8	14.6	10.3	8.4	5.2	6.3	1.7	1.5	.8	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1860-1972

DECEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	1.3	1.0	.0	.0	.0	.0	7.6	1.7	.0	3.0	.0	.0	.0	87.7
NE	9.8	.0	2.4	.0	1.8	.0	.3	12.8	6.7	.0	.6	.0	.6	.0	79.3
E	13.4	1.2	6.5	.0	1.8	.0	.3	21.3	1.9	.0	3.3	.0	1.0	.0	72.6
SE	26.4	3.4	9.6	.0	.0	.2	.0	37.7	2.9	.0	5.4	.0	1.0	.2	52.7
S	24.6	3.1	7.8	.5	.3	.0	.3	35.3	4.5	.0	7.7	.0	.8	.0	51.6
SW	22.2	7.2	5.6	.1	.9	.4	.4	35.1	7.9	.0	4.8	.0	.6	.0	51.6
W	10.5	6.9	5.9	.0	.3	.4	1.8	24.8	5.2	.9	4.2	.0	.0	.0	65.4
NW	6.7	2.6	3.6	.0	.0	.4	.3	13.7	3.9	.0	4.3	.4	.0	.0	77.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.3	.0	3.3	.0	.0	6.7	.0	.0	3.3	.0	3.3	.0	86.7
TOT PCT	17.5	3.6	6.4	.1	.6	.2	.4	27.5	4.2	.1	4.8	.1	.6	.1	62.7
TOT OBS:	1870														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	PRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	17.4	3.9	7.4	.2	.7	.0	.7	27.9	2.6	.2	5.5	.0	1.5	.2	62.3
0600	18.0	3.7	4.8	.3	.3	.5	.3	27.2	6.6	.3	4.0	.0	.3	.0	61.6
1200	18.9	3.3	5.3	.0	1.0	.4	.2	28.3	4.3	.0	3.9	.2	.0	.4	63.0
1800	15.7	3.2	7.4	.0	.4	.0	.4	25.9	3.6	.0	6.0	.0	.8	.2	63.5
TOT PCT TOT OBS:	17.5 1930	3.5	6.3	.1	.6	.2	.4	27.4	4.1	.1	4.9	.1	.7	.2	62.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.5	1.6	.5	.8	.1		4.1	13.1	5.6	3.3	4.6	2.8	3.6	5.3	4.3	1.4	
NE	.2	1.9	1.6	.8	.8	.0		4.4	13.2	4.1	5.2	3.8	6.0	3.4	4.6	4.1	6.0	
E	.4	5.6	5.1	2.1	.4	.1		13.6	14.4	10.8	15.3	9.6	15.2	15.0	18.3	13.2	15.4	
SE	.3	4.2	8.8	6.6	2.0	.4		22.3	20.1	21.7	23.7	20.0	23.1	22.2	22.5	21.8	25.4	
S	.4	2.8	7.4	4.6	1.4	.4		17.0	20.0	16.3	20.7	17.0	19.1	16.9	13.0	16.7	18.0	
SW	.1	2.9	5.7	3.1	1.1	.0		13.0	18.4	13.6	12.0	16.2	12.6	11.9	12.9	13.2	9.9	
W	.5	2.9	5.5	2.5	.7	.2		12.4	17.4	13.6	8.1	12.7	10.0	12.8	11.7	12.2	15.1	
NW	.1	3.5	4.4	3.0	.5	.0		11.6	17.5	11.7	10.4	14.4	11.2	12.7	10.1	12.7	6.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7							1.7	.0	2.6	1.2	1.6	.0	1.5	1.6	1.8	2.0	
TOT OBS	83	304	799	461	124	23	1994		17.5	383	169	251	145	328	190	332	196	
TOT PCT	4.2	25.3	40.1	23.1	6.2	1.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.1	1.7	1.1	.2	.1	4.1	13.1	4.9	3.9	4.2	3.2		
NE	1.0	2.1	1.1	.2	.0	4.4	13.2	4.4	4.6	3.9	4.8		
E	2.4	6.4	3.7	1.0	.1	13.6	14.4	12.2	11.6	16.2	14.0		
SE	1.4	7.7	8.7	3.5	1.0	22.3	20.1	22.3	21.1	22.3	23.2		
S	1.4	5.3	6.3	3.4	.5	17.0	20.0	17.7	17.8	15.5	17.2		
SW	.9	5.1	5.0	1.8	.2	13.0	18.4	13.1	14.9	12.3	12.0		
W	1.7	4.8	4.0	1.6	.3	12.4	17.4	11.9	11.7	12.4	13.3		
NW	1.0	4.7	4.2	1.6	.2	11.6	17.5	11.3	13.3	11.7	10.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.7					1.7	.0	2.2	1.0	1.5	1.9		
TOT OBS	248	753	680	266	47	1994		352	396	518	528		
TOT PCT	12.4	37.8	34.1	13.3	2.4	100.0		100.0	100.0	100.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1860-1972

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.2	2.0	22.1	42.9	22.5	6.7	1.6	18.1	100.0	552
0600	1.0	2.0	25.8	41.7	22.7	6.3	.5	17.3	100.0	396
1200	1.5	3.1	26.1	38.4	23.2	6.8	1.0	17.5	100.0	518
1800	1.9	2.7	27.5	37.5	24.1	5.1	1.3	17.1	100.0	528
TOT	1.4	2.4	25.4	40.1	23.1	6.2	1.2	17.5		1994
PCT	1.7	2.5	25.3	40.1	23.1	6.2	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.7	1.5	1.2		4.3
NE	1.3	.3	1.2	1.5		5.2
E	2.2	1.3	3.5	4.7		5.7
SE	1.2	1.3	4.0	14.2		7.0
S	1.5	1.0	4.1	10.7		6.7
SW	1.5	1.0	4.8	6.6		6.4
W	1.3	1.6	5.0	4.4		5.9
NW	2.7	2.2	3.9	3.5		5.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.7	.8		5.5
TOT OBS	142	96	289	481	1008	6.1
TOT PCT	14.1	9.5	28.7	47.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.2	.0	.2	.3	.4	.9	.1	.1	.0	.0	2.9	
.1	.0	.0	.1	1.2	.9	.0	.0	.0	.0	1.8	
.2	.0	.3	.9	2.2	2.2	1.0	.2	.1	.0	4.4	
1.5	.1	1.0	3.4	4.8	3.1	2.3	.3	.1	.2	3.9	
1.2	.1	.5	2.4	4.2	2.6	1.4	.6	.1	.0	4.1	
.7	.3	.4	2.3	2.8	1.6	1.4	.4	.1	.2	3.7	
.7	.1	1.5	3.1	2.2	.7	.2	.1	.0	.0	3.8	
.2	.0	.9	.8	2.0	1.8	.4	.2	.0	.1	5.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.6	.0	.8	.0	.0	.0	.8	
.49	.7	3.5	11.9	21.6	15.3	8.2	2.2	.6	.5	31.4	1008
4.9	.7	3.5	11.8	21.4	15.2	8.1	2.2	.6	.5	31.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM) >1	>1/2	>1/4	>50YD	>0
>6500	.4	.9	1.1	1.1	1.1	1.1	1.1	1.1
>5000	2.3	3.2	3.4	3.4	3.4	3.4	3.4	3.4
>3500	8.7	11.7	12.3	12.4	12.4	12.4	12.4	12.4
>2000	17.6	25.8	26.8	27.0	27.2	27.2	27.2	27.2
>1000	27.5	44.2	46.9	47.9	48.8	48.8	48.8	48.8
>600	31.9	52.4	57.5	59.0	60.4	60.4	60.4	60.4
>300	33.6	54.8	60.6	62.3	63.7	63.7	63.7	63.7
>150	33.8	55.1	61.0	62.8	64.3	64.4	64.4	64.4
>0	34.0	56.2	63.3	65.7	67.4	68.3	69.0	69.0
TOTAL	348	575	648	673	690	699	707	707

TOTAL NUMBER OF OBS: 1024

PCT FREQ NM <5/8: 31.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
6.5	4.5	7.2	6.5	5.5	6.4	7.6	15.0	37.2	3.6	1002

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 186C-1972

DECEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 128.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	NO PCP	.0	.0	.1	.2	.5	.1	.2	.1	.0	.0	1.3	
	TOT %	.0	.0	.2	.3	.6	.2	.2	.1	.0	.0	1.8	
1/2<1	PCP	.0	.0	.2	.8	.2	.1	.0	.0	.0	.0	1.3	
	NO PCP	.0	.0	.1	.3	.3	.3	.1	.1	.0	.1	1.4	
	TOT %	.0	.0	.3	1.1	.5	.5	.1	.1	.0	.1	2.7	
1<2	PCP	.0	.1	.2	1.1	.5	.3	.1	.1	.0	.1	2.2	
	NO PCP	.0	.0	.0	.2	.2	.1	.1	.1	.0	.0	.6	
	TOT %	.0	.1	.2	1.3	.7	.4	.1	.1	.0	.1	2.9	
2<5	PCP	.1	.1	.3	1.7	1.6	.9	.5	.3	.0	.0	5.5	
	NO PCP	.1	.1	.7	.8	.4	.4	.8	.5	.0	.0	3.7	
	TOT %	.2	.2	.9	2.5	2.0	1.3	1.3	.7	.0	.0	9.3	
5<10	PCP	.2	.2	1.7	3.7	2.5	2.2	1.7	.7	.0	.0	12.9	
	NO PCP	.5	1.0	2.9	4.6	3.6	2.3	2.7	2.3	.0	.2	20.0	
	TOT %	.6	1.2	4.6	8.3	6.1	4.5	4.4	3.0	.0	.2	32.9	
10+	PCP	.1	.2	.4	.9	1.1	.9	.7	.7	.0	.1	5.1	
	NO PCP	3.1	2.7	6.9	7.7	6.0	5.0	3.4	7.2	.0	1.2	45.3	
	TOT %	3.2	2.9	7.3	8.7	7.2	5.9	6.1	7.9	.0	1.3	50.5	
TOT OBS		1870											
TOT PCT		4.1	4.4	13.6	22.2	17.1	12.9	12.3	11.9	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.5	
	11-21	.0	.0	.1	.2	.1	.1	.1	.1	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.2	.3	.6	.2	.2	.1	.0	.0	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.5	
	11-21	.0	.0	.1	.4	.3	.4	.1	.1	.0	.0	1.2	
	22+	.0	.0	.1	.6	.1	.1	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.3	1.0	.5	.5	.1	.1	.0	.1	2.7	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	11-21	.0	.1	.1	.4	.3	.2	.2	.1	.0	.0	1.3	
	22+	.0	.1	.1	.8	.3	.2	.0	.0	.0	.0	1.4	
	TOT %	.0	.2	.2	1.3	.7	.5	.3	.2	.0	.1	3.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	4-10	.1	.2	.4	.4	.5	.3	.3	.3	.0	.0	2.3	
	11-21	.0	.1	.4	.8	.4	.7	.4	.3	.0	.0	3.1	
	22+	.1	.0	.2	1.6	1.3	.5	.5	.2	.0	.0	4.5	
	TOT %	.2	.2	1.0	2.7	2.3	1.6	1.3	.7	.0	.0	10.0	
5<10	0-3	.1	.1	.3	.1	.1	.0	.2	.0	.0	.2	1.1	
	4-10	.3	.6	1.3	1.2	.7	1.0	.8	.7	.0	.0	6.8	
	11-21	.2	.3	1.8	3.4	2.8	1.7	1.6	.8	.0	.0	12.6	
	22+	.1	.3	1.0	3.5	2.4	1.7	1.5	1.3	.0	.0	11.8	
	TOT %	.6	1.2	4.5	8.2	6.0	4.4	4.2	2.5	.0	.2	32.3	
10+	0-3	.3	.1	.1	.1	.1	.1	.2	.1	.0	1.4	2.3	
	4-10	1.1	1.2	3.3	2.4	1.4	1.4	1.5	2.3	.0	.0	14.8	
	11-21	1.4	1.2	2.7	3.7	3.3	2.6	3.0	3.2	.0	.0	21.2	
	22+	.3	.3	1.1	2.5	1.9	1.7	1.4	2.1	.0	.0	11.3	
	TOT %	3.1	2.9	7.3	8.6	7.0	5.8	6.0	7.7	.0	1.4	50.0	
TOT OBS		1931											
TOT PCT		4.0	4.3	13.7	22.2	17.1	12.9	12.2	11.7	.0	1.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1860-1972

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.6	.9	4.2	13.0	19.9	14.6	7.8	1.9	.9	.3	68.9	31.1	322
06009	5.0	1.0	3.5	11.5	21.5	15.0	10.0	.5	1.5	1.0	70.5	29.5	200
12015	3.9	.0	2.8	8.3	16.5	17.3	8.7	3.5	.7	.4	61.4	38.6	254
18021	4.1	.7	3.0	12.6	26.7	14.4	9.3	3.0	.0	.4	74.1	25.9	270
TOT	49	7	35	120	221	160	92	24	6	5	719	327	1046
PCT	4.7	.7	3.3	11.5	21.1	15.3	8.8	2.3	.6	.5	69.7	31.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.3	3.3	4.7	10.6	30.6	49.5	358
06009	1.0	2.0	2.5	11.7	35.9	46.8	393
12015	1.3	3.6	2.5	6.8	32.4	53.4	520
18021	2.2	2.3	3.1	11.4	32.5	48.5	511
TOT	35	52	65	199	649	990	1990
PCT	1.8	2.6	3.3	10.0	32.6	49.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	5.7	11.7	29.4	40.8	29.7	316
06009	5.1	10.8	28.7	42.1	29.2	195
12015	4.0	8.4	18.5	44.2	37.3	249
18021	3.8	9.1	25.4	50.0	24.6	264
TOT	48	103	262	453	309	1024
PCT	4.7	10.1	25.6	44.2	30.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.1	.2	.2	.2	.4	.4	16	1.2
50/54	.0	.1	.1	.1	.5	1.5	6.2	7.9	212	16.4
45/49	.0	.0	.2	.8	2.1	7.6	11.5	16.6	501	38.8
40/44	.0	.0	.2	.5	4.0	6.1	8.8	8.3	362	28.0
35/39	.0	.0	.0	.1	.9	1.1	5.5	5.6	169	13.1
30/34	.0	.0	.0	.0	.2	.0	1.1	1.2	31	2.4
25/29	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	8	21	101	214	430	517	1292	100.0
PCT	.0	.1	.6	1.6	7.8	16.6	33.3	40.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.1	.2	.2	.3	.2	.2	.0	.0
50/54	.1	.1	1.4	5.3	5.1	2.2	1.6	.6	.0	.0
45/49	1.1	1.2	4.2	8.7	6.5	5.8	3.6	5.1	.0	.6
40/44	2.5	1.8	4.8	4.5	2.6	3.0	3.5	4.9	.0	.4
35/39	.2	1.5	3.1	2.8	2.1	1.6	.7	.8	.0	.3
30/34	.1	.2	.8	.5	.3	.3	.1	.2	.0	.0
25/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	4.1	4.9	14.5	22.0	16.8	13.2	11.6	11.7	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	55	52	46	37	33	32	45.6	566
06009	57	53	52	45	36	33	27	45.0	402
12015	58	55	52	45	34	31	26	44.5	538
18021	58	54	52	46	36	32	29	45.8	536
TOT	61	55	52	46	36	32	26	45.3	2042

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	6.2	15.9	37.7	37.2	85	403
06009	.0	2.5	9.0	14.8	31.6	42.2	85	244
12015	.0	1.4	8.0	17.1	32.3	41.2	85	362
18021	.0	2.2	8.1	16.5	32.7	40.5	85	321
TOT	0	30	102	215	451	532	85	1330

DECEMBER

PERIOD: (PRIMARY) 1935-1972
(OVER-ALL) 1860-1972

TABLE 17

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.0	.1	3	.1	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.1	3	.0	.2
7/8	.0	.0	.0	.0	.0	.1	.3	.2	.1	13	.1	.6
6	.0	.0	.0	.0	.0	.1	.3	.1	.1	9	.0	.5
5	.0	.0	.0	.0	.0	.1	.3	.2	.0	11	.1	.5
4	.0	.0	.0	.0	.0	.5	1.2	.9	.1	44	.2	2.4
3	.0	.0	.0	.1	.1	.5	1.5	.6	.0	46	.2	2.5
2	.0	.0	.0	.0	.2	1.0	3.3	.3	.0	85	.2	4.8
1	.0	.0	.0	.0	.3	1.6	3.8	.3	.0	103	.9	5.1
0	.0	.0	.0	.0	.5	4.7	4.5	.2	.0	170	1.0	8.8
-1	.0	.0	.1	.0	.5	3.8	2.7	.1	.0	123	.5	6.7
-2	.0	.0	.0	.1	1.3	7.6	1.8	.0	.0	185	.6	10.2
-3	.0	.0	.0	.0	2.4	4.7	1.0	.0	.0	139	.1	8.0
-4	.0	.0	.0	.1	4.4	4.5	.5	.0	.0	163	.5	9.0
-5	.0	.0	.1	.7	3.8	3.1	.1	.0	.0	134	.3	7.5
-6	.0	.0	.1	1.5	3.5	1.1	.1	.0	.0	108	.1	6.1
-7/-8	.0	.0	.3	4.4	3.3	1.0	.1	.0	.0	156	.0	9.1
-9/-10	.0	.0	1.2	4.0	.7	.3	.0	.0	.0	107	.0	6.2
-11/-12	.0	.1	2.2	1.6	.5	.0	.0	.0	.0	76	.1	4.4
-14/-16	.0	.5	1.3	.2	.1	.0	.0	.0	.0	35	.0	2.0
-17/-19	.1	.2	.1	.0	.0	.1	.0	.0	.0	6	.0	.3
-23/-25	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	15	88	217	368	599	374	49	7	1718	82	1636
PCT	.1	.9	5.1	12.6	21.4	34.9	21.8	2.9	.4	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.3	.5	.0	.0	.0	.7	.0	.7	.7	.0	.0	.0	1.4
3-4	.2	.7	.7	.1	.0	.0	1.6	.0	.1	.4	.7	.0	.0	1.2
5-6	.0	.0	.5	.1	.0	.0	.6	.0	.2	.3	.*	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.3	.*	.0	.5
8-9	.0	.0	.2	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	1.9	.7	.0	.0	4.3	.0	1.5	1.6	1.1	.*	.0	4.2

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.5	.0	1.3	.0	.0	.0	.0	1.3
1-2	.2	1.3	1.0	.0	.0	.0	2.4	.0	1.0	2.1	.0	.0	.0	3.1
3-4	.0	.7	2.1	.4	.0	.0	3.2	.0	.6	2.4	2.1	.0	.0	5.0
5-6	.0	.6	.9	.4	.0	.0	1.9	.0	.*	1.0	1.9	.7	.0	3.6
7	.0	.2	.0	.2	.3	.0	.6	.0	.2	1.1	1.1	.4	.0	2.6
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	1.3	.2	.2	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.2	.0	.7
13-16	.0	.0	.2	.0	.0	.1	.3	.0	.0	.2	.5	.0	.*	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.3	4.1	1.4	.5	.1	10.5	.0	3.1	6.8	7.6	2.0	.2	19.8

PERIOD: (OVER-ALL) 1963-1972

DECEMBER

AREA 0041 VANCOUVER IS. SW
48.5N 126.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.2	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.6	.8	.0	.0	.0	1.4	.0	.8	1.2	.0	.0	.0	2.0
3-4	.0	.3	1.6	1.7	.0	.0	3.8	.0	.4	1.7	.7	.0	.0	2.8
5-6	.1	.3	1.6	2.1	.8	.0	4.9	.0	.9	2.2	1.3	.2	.0	4.5
7	.0	.0	.6	1.0	.5	.2	2.2	.0	.0	.7	.7	.3	.0	1.8
8-9	.0	.0	.3	.3	.3	.0	1.0	.0	.0	.2	.3	.8	.0	1.4
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2	1.0	.2	.0	1.3
12	.0	.0	.2	.2	.3	.0	.6	.0	.0	.2	.2	.3	.0	.6
13-16	.0	.0	.0	.5	.2	.2	.9	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	5.3	6.5	2.1	.3	16.7	*	2.5	6.3	4.4	1.8	.0	15.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.6	.0	.0	.0	.0	.6	
1-2	.1	.9	.6	.0	.0	.0	1.7	.0	1.8	.4	.0	.0	.0	2.3	
3-4	.2	.7	1.8	.6	.0	.0	3.4	.0	1.4	2.9	.8	.0	.0	5.0	
5-6	.0	.2	1.8	.5	.3	.0	2.7	.0	.3	.7	1.1	.2	.0	2.3	
7	.0	.0	.8	.4	.2	.0	1.4	.0	.2	.7	.4	.2	.0	1.4	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.9	.2	.0	1.4	
10-11	.0	.0	.0	.4	.0	.2	.6	.0	.0	.2	.2	.2	.0	.5	
12	.0	.2	.3	.0	.3	.0	.8	.0	.0	.0	.0	.2	.0	.2	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.5	*	.3	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.9	5.7	2.2	.9	.2	12.1	*	4.3	5.7	3.4	1.3	.0	14.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.9	6.4	.2	.0	.0	.0	9.4	
1-2	.5	7.6	7.2	.0	.0	.0	15.3	
3-4	.3	5.0	13.6	7.0	.0	.0	26.0	
5-6	.2	2.5	8.9	7.4	2.2	.0	21.1	
7	.0	.5	4.2	4.0	1.8	.2	10.7	
8-9	.0	.0	1.3	3.5	1.5	.2	6.5	
10-11	.0	.0	.3	2.9	.7	.2	4.0	
12	.0	.2	.8	.7	1.2	.0	2.9	
13-16	.0	.0	.8	1.5	.5	.3	3.2	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	22.1	37.4	27.2	8.6	.8	100.0	596

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.4	7.8	6.2	3.2	1.7	.9	.5	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	5
6-7	.0	4.7	4.7	8.6	7.8	4.8	2.9	1.5	1.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	388	6
8-9	.0	1.4	2.4	3.6	3.3	3.5	2.1	.8	2.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	208	8
10-11	.0	.0	.9	.9	.9	1.0	1.2	.5	1.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	71	9
12-13	.0	.0	.0	.4	.0	.6	.7	.4	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	31	11
>13	.0	.0	.0	.0	.2	.0	.2	.3	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	14	13
INDET	1.0	.1	1.1	.6	.3	1.0	.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	54	6
TOTAL	16	111	176	212	164	131	87	46	75	11	13	3	0	0	0	0	0	0	0	1045	7
PCT	1.5	10.6	16.8	20.3	15.7	12.5	8.3	4.4	7.2	1.1	1.2	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

ANNUAL

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.3	.8	2.0	.0	.4	*	.1	5.4	.7	.1	6.5	.1	1.1	.0	86.0	
NE	4.6	1.0	2.7	.0	.8	.0	.1	8.9	2.3	.1	7.3	.1	1.3	.1	79.8	
E	11.0	2.8	5.5	.0	.8	*	.1	19.6	2.1	.1	8.0	.1	1.6	.0	68.3	
SE	18.4	3.8	8.7	.0	.4	*	.2	30.5	2.7	.2	9.2	.2	.9	.1	56.3	
S	18.1	4.0	9.7	*	.2	*	.2	31.1	3.1	.3	10.0	.4	.9	.2	54.2	
SW	11.1	4.0	7.2	*	.3	.1	.2	22.2	3.1	.2	7.9	.4	.9	.1	65.2	
W	5.3	3.1	4.1	.0	.3	.1	.4	12.7	2.6	.2	7.7	.3	.8	.1	75.6	
NW	2.5	1.4	2.2	.0	.3	.1	.1	6.5	1.5	.1	5.5	.2	.7	.1	85.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.4	2.7	.0	.5	.0	.0	5.2	.4	.1	9.4	.3	2.1	.0	82.4	
TOT PCT	9.3	2.6	5.2	*	.4	*	.2	17.1	2.2	.2	7.7	.3	1.0	.1	71.6	
TOT OBS: 29359																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	9.2	2.6	4.5	*	.4	*	.2	16.1	1.8	.1	7.9	.3	1.4	.1	72.5	
0600	9.1	2.9	5.5	*	.3	*	.1	17.5	2.2	.3	7.1	.3	.6	.1	72.1	
1200	10.6	2.6	5.5	.0	.3	.1	.1	18.8	2.2	.2	8.0	.2	.9	.2	69.7	
1800	8.2	2.4	5.1	.0	.6	*	.2	15.9	2.3	.1	8.8	.4	1.3	.1	71.1	
TOT PCT	9.3	2.6	5.1	*	.4	*	.2	17.1	2.1	.2	8.0	.3	1.0	.1	71.3	
TOT OBS: 30586																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.1	2.4	.6	.1	*		7.0	11.8	6.8	6.2	7.5	6.2	7.2	7.5	7.3	6.4	
NE	.5	2.0	1.1	.3	.0	.0		3.9	9.5	2.8	4.1	3.2	4.3	3.8	3.6	3.5	5.2	
E	.8	3.9	3.1	1.0	.2	*		9.0	11.5	6.9	9.2	7.0	9.9	8.9	12.0	8.2	12.9	
SE	.7	4.8	3.4	2.7	.7	.1		14.5	14.8	13.8	13.1	12.3	14.6	13.9	16.0	15.5	17.0	
S	.6	4.3	3.3	2.2	.7	.1		13.1	14.8	14.4	12.1	13.1	11.9	12.5	12.8	14.2	12.4	
SW	.7	4.4	3.8	1.3	.2	*		10.4	12.5	10.6	12.6	10.3	10.3	9.9	11.1	9.4	10.4	
W	1.2	7.1	4.3	2.0	.3	.1		16.8	13.1	17.1	20.2	17.5	19.4	16.4	14.6	16.1	15.5	
NW	1.0	7.5	8.7	3.2	.5	*		20.8	14.8	23.1	19.5	23.8	20.3	21.4	16.6	20.5	17.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5							4.5	.0	4.5	3.0	5.0	2.9	6.0	3.8	5.2	2.5	
TOT OBS							31198		13.1	5498	2864	4375	2187	5394	2968	4985	3087	
TOT PCT	10.7	36.9	36.1	13.2	2.7	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	2.1	3.2	1.3	.3	*		7.0	11.8	6.5	7.1	7.3	6.9
NE	1.3	1.8	.5	.1	*		3.9	9.5	3.2	3.6	4.4	4.2
E	2.4	4.2	1.8	.5	.1		9.0	11.5	7.7	8.0	10.0	10.0
SE	2.6	6.0	4.1	1.5	.3		14.5	14.8	13.6	13.3	14.7	16.2
S	2.3	5.6	3.6	1.3	.2		13.1	14.8	13.6	12.7	12.6	13.5
SW	2.5	5.0	2.3	.6	.1		10.4	12.5	11.2	10.3	10.3	9.8
W	4.2	8.1	3.7	.8	.1		16.8	13.1	18.1	18.0	13.7	15.8
NW	3.8	9.8	5.8	1.3	.1		20.8	14.8	21.9	22.6	19.7	19.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	4.0	4.4	5.2	4.2
TOT OBS						31198		13.1	8162	6362	8362	8072
TOT PCT	25.8	43.8	23.0	6.5	.9		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

ANNUAL

AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	4.0	5.8	35.9	37.4	13.5	2.9	.4	13.5	100.0	8162
0600	4.4	5.0	36.8	37.3	13.7	2.6	.2	13.3	100.0	6582
1200	5.2	7.0	37.8	34.3	12.7	2.6	.3	12.7	100.0	8362
1800	4.2	7.0	37.1	35.6	13.1	2.7	.3	13.1	100.0	8072
TOT								13.1		31158
PCT	4.5	6.3	36.9	36.1	13.2	2.7	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.0	1.6	1.8		4.1
NE	1.3	.4	.8	.9		4.4
E	1.7	.7	1.9	3.3		5.7
SE	1.2	.9	3.2	8.5		6.6
S	.9	.9	3.4	8.9		6.8
SW	1.0	1.1	3.0	4.8		6.2
W	2.7	2.3	5.4	6.0		5.6
NW	8.9	3.4	5.9	5.7		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.5	.6	1.3	1.8		4.8
TOT OBS					17085	5.5
TOT PCT	20.3	11.5	26.6	41.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	*	.2	.4	.9	.9	.2	*	*	*	4.5	
NE	.1	*	.1	.1	.5	.4	.1	.1	*	*	2.0	
E	.3	*	.2	.6	1.2	1.1	.6	.2	.1	*	3.4	
SE	1.1	.2	.7	1.5	2.9	2.3	1.0	.4	.1	.1	3.5	
S	1.3	.1	.6	1.7	3.1	2.4	1.1	.5	.1	*	3.1	
SW	.5	.1	.4	1.1	2.2	1.6	.6	.2	.1	*	3.2	
W	.8	.1	.4	1.2	3.1	2.6	.9	.4	.1	*	6.8	
NW	.8	.1	.4	1.3	3.3	2.7	.7	.2	.1	.1	12.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	*	*	.2	.7	.9	.3	*	*	*	2.5	
TOT OBS												17085
TOT PCT	5.6	.7	2.9	8.0	17.9	14.8	5.6	3.1	.8	.4	41.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	2.5	3.2	3.3	3.3	3.3	3.3	3.3	3.3
>3500	6.8	8.9	9.2	9.2	9.2	9.3	9.3	9.3
>2000	15.7	22.7	23.7	24.0	24.1	24.1	24.1	24.1
>1000	25.1	38.2	40.8	41.4	41.7	41.8	41.8	41.8
>600	28.6	44.4	48.0	48.9	49.3	49.5	49.6	49.6
>300	29.3	48.1	50.4	51.6	52.1	52.4	52.4	52.5
>150	29.3	48.5	50.9	52.2	52.8	53.1	53.2	53.2
>0	29.7	47.3	52.5	54.5	56.2	57.5	58.6	58.6

TOTAL NUMBER OF OBS: 17420

PCT FREQ NM <5/8: 41.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.1	6.5	9.0	7.3	5.8	6.3	7.8	9.6	30.6	5.0	18222

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

ANNUAL

AREA 0041 VANCOUVER IS. SW
46.5N 126.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	.1	.1	.1	.1	*	.0	*	.5	
	NO PCP	.2	.1	.2	.4	.4	.2	.5	.6	.0	.3	2.8	
	TOT %	.2	.1	.2	.5	.5	.3	.6	.6	.0	.3	3.3	
1/2<1	PCP	*	*	.1	.3	.2	.1	.1	*	.0	*	1.0	
	NO PCP	.1	*	.2	.3	.4	.2	.3	.3	.0	.1	1.9	
	TOT %	.1	.1	.4	.7	.6	.3	.4	.3	.0	.1	2.9	
1<2	PCP	*	*	.2	.5	.4	.2	.1	*	.0	*	1.6	
	NO PCP	.1	*	*	.1	.2	.1	.2	.1	.0	*	.8	
	TOT %	.1	*	.2	.7	.6	.3	.3	.2	.0	.1	2.5	
2<5	PCP	.1	.1	.3	1.1	1.0	.4	.3	.2	.0	*	3.4	
	NO PCP	.1	.1	.3	.4	.5	.4	.5	.4	.0	.1	2.7	
	TOT %	.2	.2	.6	1.5	1.4	.8	.8	.6	.0	.1	6.1	
5<10	PCP	.2	.1	.8	2.0	1.9	1.2	1.0	.5	.0	.1	7.9	
	NO PCP	1.6	.9	2.0	3.1	2.7	2.5	4.0	4.7	.0	.8	22.2	
	TOT %	1.7	1.0	2.8	5.1	4.6	3.7	5.0	5.2	.0	.9	30.0	
10+	PCP	.1	.1	.3	.5	.6	.4	.5	.3	.0	*	2.8	
	NO PCP	4.7	2.4	4.5	5.4	4.8	4.6	9.4	13.9	.0	2.8	52.4	
	TOT %	4.8	2.4	4.8	5.9	5.4	5.0	9.8	14.2	.0	2.8	55.1	
TOT OBS													29328
TOT PCT		7.0	3.8	8.9	14.4	13.2	10.5	16.8	21.1	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	.1	.1	.0	.3	.7	
	4-10	.1	*	.1	.2	.2	.4	.4	.4	.0		1.6	
	11-21	*	*	*	.2	.1	.1	.2	.2	.0		.8	
	22+	*	.0	*	.1	.1	*	*	*	.0		.3	
	TOT %	.2	.1	.2	.5	.5	.3	.6	.6	.0	.3	3.4	
1/2<1	0-3	*	*	*	.1	*	*	.1	*	.0	.1	.4	
	4-10	.1	*	.1	.2	.1	.1	.2	.2	.0		1.0	
	11-21	*	*	.1	.2	.3	.1	.1	.1	.0		.9	
	22+	*	*	.1	.2	.2	*	*	*	.0		.5	
	TOT %	.1	.1	.4	.7	.6	.3	.4	.3	.0	.1	2.9	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	.1	*	.1	.1	.2	.1	.2	.1	.0		.8	
	11-21	*	*	.1	.3	.2	.1	.1	.1	.0		.9	
	22+	.0	*	.1	.3	.2	.1	*	*	.0		.8	
	TOT %	.1	.1	.2	.7	.6	.3	.3	.2	.0	.1	2.7	
2<5	0-3	*	*	*	.1	*	.1	.1	*	.0	.1	.5	
	4-10	.1	.1	.2	.3	.3	.3	.2	.2	.0		1.9	
	11-21	.1	*	.2	.5	.6	.3	.3	.3	.0		2.3	
	22+	*	*	.2	.7	.5	.2	.2	.1	.0		1.9	
	TOT %	.2	.2	.6	1.6	1.5	.8	.9	.6	.0	.1	6.5	
5<10	0-3	.2	.2	.3	.2	.2	.3	.4	.3	.0	.9	2.9	
	4-10	.8	.5	1.1	1.4	1.3	1.5	1.9	1.7	.0		10.2	
	11-21	.9	.2	1.0	2.0	1.8	1.3	1.8	2.2	.0		10.9	
	22+	.2	.1	.4	1.4	1.2	.6	.8	.9	.0		5.6	
	TOT %	1.7	1.0	2.8	5.0	4.6	3.6	4.9	5.1	.0	.9	29.6	
10+	0-3	.4	.3	.4	.3	.2	.3	.5	.5	.0	2.9	5.8	
	4-10	2.0	1.2	2.3	2.5	2.1	2.2	4.1	4.9	.0		21.4	
	11-21	1.7	.8	1.7	2.2	2.2	1.9	3.9	8.0	.0		20.4	
	22+	.6	.2	.4	.9	.8	.6	1.2	2.8	.0		7.3	
	TOT %	4.7	2.4	4.8	5.9	5.4	4.9	9.7	14.0	.0	2.9	54.8	
TOT OBS													30078
TOT PCT		7.0	3.8	9.0	14.5	13.1	10.4	16.8	21.0	.0	4.4	100.0	

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

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AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.2	.7	2.8	7.8	17.0	13.8	6.4	2.6	.9	.3	57.5	42.5	4971
06009	5.3	.4	2.8	6.5	17.7	14.3	5.6	1.4	.9	.5	55.3	44.7	3937
12015	6.0	.5	2.3	7.9	16.7	15.3	5.6	2.7	.6	.4	57.9	42.1	4474
18021	5.8	1.2	3.5	8.2	18.8	15.7	5.9	1.7	.7	.3	61.8	38.2	4334
TOT PCT	5.6	.7	2.8	7.7	17.5	14.7	5.9	2.1	.8	.4	58.2	41.8	17716 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.1	3.5	2.7	6.3	28.6	55.7	8301
06009	3.3	2.5	2.5	6.3	32.8	52.7	6675
12015	3.6	3.5	2.6	5.7	32.7	51.9	8553
18021	4.2	2.8	3.0	7.4	27.1	55.5	7781
TOT PCT	3.5	3.1	2.7	6.4	30.2	54.0	31310 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	5.3	9.7	21.0	37.7	41.3	4898
06009	5.4	9.4	19.8	36.9	43.3	3853
12015	6.1	9.7	20.8	38.4	40.8	4403
18021	5.8	11.4	23.3	39.9	36.8	4266
TOT PCT	5.7	10.1	21.3	38.2	40.5	17420 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.1	.1	.4	.3	.2	1.1	.1
60/64	.0	.0	.0	.1	.5	1.4	2.6	2.1	6.7	.2
55/59	.0	.0	.1	.2	.9	3.0	7.8	7.7	19.7	.7
50/54	.0	.0	.0	.3	1.6	3.5	10.7	9.7	25.8	.3
45/49	.0	.0	.1	.4	1.5	5.3	9.8	11.0	28.1	.1
40/44	.0	.0	.1	.3	1.3	2.5	4.2	4.8	13.3	.1
35/39	.0	.0	.0	.1	.3	.4	1.4	1.9	4.1	.0
30/34	.0	.0	.0	.0	.0	.1	.3	.3	.8	.0
25/29	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
20/24	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
TOTAL PCT	.0	.1	.4	1.5	6.3	16.6	37.2	38.0	18271 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.2	.1	.1	.1	.1	.1	.2	.3	.0	.1
.6	.2	.3	.6	.7	.7	1.3	1.9	.0	.4
1.8	.5	.9	1.9	2.3	1.9	3.5	5.7	.0	1.0
1.7	.8	2.0	3.5	3.5	2.8	4.7	5.6	.0	1.1
1.6	1.1	2.6	4.4	4.8	3.6	4.7	4.6	.0	.6
1.1	.7	1.6	2.0	1.6	1.4	2.3	2.5	.0	.2
.2	.4	.7	.7	.6	.4	.7	.4	.0	.1
.1	.1	.2	.1	.1	.0	.1	.1	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.4	3.8	8.5	13.3	13.7	11.0	17.4	21.3	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	63	58	52	44	40	21	52.0	8462
06009	77	58	56	50	43	39	20	50.8	6793
12015	69	58	55	50	42	39	21	49.8	8767
18021	78	61	54	51	44	39	20	51.7	8201
TOT	80	61	57	51	43	39	20	51.0	32223

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	7.7	19.5	36.6	33.9	84	5391
06009	.0	1.7	4.9	13.8	39.3	38.3	86	3761
12015	.0	1.2	4.5	12.7	37.9	43.7	87	5300
18021	.0	2.2	7.7	18.0	36.0	36.1	85	4380
TOT	.0	1	34.3	1158	3078	7073	7179	86 18832

ANNUAL

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974AREA 0041 VANCOUVER IS. SW
48.5N 126.1W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	6	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	16	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	*	73	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.0	*	161	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.2	.1	.0	*	286	.1	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.2	.3	.6	.4	.3	.0	.0	*	531	.2	1.6
6	.0	.0	.0	.0	.0	.0	.1	.2	.4	.4	.2	.1	.0	.0	*	431	.1	1.4
5	.0	.0	.0	.0	.0	.0	.1	.4	.8	.7	.6	.1	.0	.0	*	808	.3	2.5
4	.0	.0	.0	.0	.0	.0	.4	1.0	1.3	1.0	.6	.1	.0	.0	*	1234	.5	3.9
3	.0	.0	.0	.0	.0	.1	1.4	1.2	1.4	1.1	.4	.1	.0	.0	*	1341	.5	4.2
2	.0	.0	.0	.0	.0	.1	1.4	2.3	2.2	1.7	.6	.0	.0	.0	*	2324	.8	7.6
1	.0	.0	.0	.0	.0	.2	1.6	2.6	2.3	1.6	.5	.0	.0	.0	*	2430	.9	7.8
0	.0	.0	.0	.0	.0	.4	4.1	3.9	2.6	2.3	.4	.0	.0	.0	*	3768	1.3	12.6
-1	.0	.0	.0	.0	.0	.8	3.3	2.8	2.1	1.4	.2	.0	.0	.0	*	2846	.8	9.8
-2	.0	.0	.0	.0	.1	1.3	4.2	2.3	1.7	1.0	.2	.0	.0	.0	*	2843	.8	10.0
-3	.0	.0	.0	.0	.1	1.4	2.5	1.5	1.0	.5	.1	.0	.0	.0	*	1861	.5	6.6
-4	.0	.0	.0	.0	.2	1.9	2.0	1.1	.7	.2	.0	.0	.0	.0	*	1590	.4	5.8
-5	.0	.0	.0	.0	.5	1.7	1.8	.8	.4	.2	.0	.0	.0	.0	*	1368	.3	5.0
-6	.0	.0	.0	.0	.6	1.1	.7	.3	.2	.1	.0	.0	.0	.0	*	749	.2	2.8
-7/-8	.0	.0	.0	.1	1.4	1.6	.7	.4	.2	.0	.0	.0	.0	.0	*	1098	.2	4.2
-9/-10	.0	.0	.0	.3	1.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	*	542	.1	2.1
-11/-13	.0	.0	.1	.8	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	*	377	.1	1.5
-14/-16	.0	.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	139	.0	.6
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	36	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	9	.0	.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	12	.0	.0
TOTAL																26882		
PCT	*	.1	.4	1.6	4.7	11.1	23.7	21.1	17.9	13.1	4.8	1.2	.2	.1	*	100.0	8.1	91.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.4	.1	.0	.0	.0	1.9	.2	1.1	.1	.0	.0	.0	.0	1.3	
1-2	.1	1.0	.5	.0	.0	.0	1.6	.0	.4	.3	.0	.0	.0	.0	.7	
3-4	.1	.7	.7	.1	.0	.0	1.6	.0	.2	.2	.1	.0	.0	.0	.5	
5-6	.0	.1	.4	.1	.0	.0	.7	.0	.1	.2	.0	.0	.0	.0	.2	
7	.0	.0	.2	.1	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.3	2.0	.7	.1	.0	6.6	.2	1.8	.8	.2	.0	.0	.0	3.0	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.8	.3	.0	.0	.0	2.3	.3	2.3	.2	.0	.0	.0	.0	2.9	
1-2	.0	.8	.7	.0	.0	.0	1.6	.0	1.2	1.4	.0	.0	.0	.0	2.7	
3-4	.0	.4	.7	.2	.0	.0	1.3	.0	.7	1.3	.6	.0	.0	.0	2.8	
5-6	.0	.1	.4	.1	.0	.0	.7	.0	.2	1.0	.8	.2	.0	.0	2.2	
7	.0	.0	.2	.1	.0	.0	.4	.0	.0	.7	.5	.1	.0	.0	1.4	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.5	.1	.0	.0	.8	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.1	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.1	2.4	.6	.1	.0	6.6	.4	4.6	5.2	3.0	.7	.0	.0	13.8	

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.8	.2	.0	.0	.0	2.2	.2	1.4	.1	.0	.0	.0	1.6	
1-2	.1	1.5	1.2	.0	.0	.0	2.7	.1	1.3	.8	.0	.0	.0	2.4	
3-4	.0	1.0	1.9	.9	.0	.0	3.8	.0	.7	1.2	.3	.0	.0	2.2	
5-6	.0	.3	1.3	.8	.3	.0	2.7	.0	.3	1.0	.3	.1	.0	2.0	
7	.0	.1	.5	.4	.2	.0	1.2	.0	.1	.4	.3	.1	.0	.8	
8-9	.0	.0	.2	.2	.1	.0	.7	.0	.0	.3	.3	.1	.0	.7	
10-11	.0	.0	.1	.2	.1	.0	.4	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.1	.1	.0	.0	.1	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.7	5.5	2.9	.9	.1	14.4	.3	4.1	4.1	1.7	.3	.0	10.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	2.1	.1	.0	.0	.0	2.5	.3	2.6	.3	.0	.0	.0	3.3	
1-2	.1	2.1	1.3	.0	.0	.0	3.5	.1	2.9	1.6	.0	.0	.0	4.6	
3-4	.0	1.4	2.3	.5	.0	.0	4.3	.0	1.8	3.3	.6	.0	.0	5.8	
5-6	.0	.5	1.3	.5	.2	.0	2.4	.0	.5	2.0	.9	.1	.0	3.4	
7	.0	.1	.7	.4	.1	.0	1.3	.0	.1	1.0	.8	.1	.0	2.0	
8-9	.0	.0	.2	.3	.0	.0	.6	.0	.0	.4	.5	.1	.0	1.1	
10-11	.0	.0	.1	.2	.1	.0	.5	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	.1	.1	.1	.0	.3	
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	6.4	6.1	2.2	.4	.0	13.7	.6	8.0	6.9	3.5	.6	.0	21.6	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	14.5	1.2	.0	.0	.0	25.8	
1-2	.6	11.5	7.8	.0	.0	.0	19.9	
3-4	.2	7.1	11.8	3.3	.0	.0	22.4	
5-6	.1	2.0	7.6	3.7	.9	.0	14.3	
7	.0	.4	3.7	2.7	.5	.1	7.4	
8-9	.0	.2	1.4	2.1	.5	.0	4.3	
10-11	.0	.1	.7	1.6	.4	.0	2.8	
12	.0	.0	.2	.6	.3	.0	1.3	
13-16	.0	.0	.3	.5	.3	.0	1.2	
17-19	.0	.0	.0	.1	.2	.0	.4	
20-22	.0	.0	.0	.1	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	35.8	34.9	14.8	3.2	.2	100.0	9995

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	7.9	10.5	6.3	2.9	1.5	.8	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9646
6-7	.0	5.0	7.3	7.9	5.2	3.0	1.8	.8	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5312
8-9	.0	2.3	3.1	3.6	3.3	2.3	1.4	.8	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2947
10-11	.0	.5	.7	.8	.8	.8	.8	.4	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	904
12-13	.0	.0	.3	.3	.2	.3	.3	.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	347
>13	.0	.0	.0	.1	.2	.1	.1	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	157
INDET	3.3	.8	1.2	.8	.6	.5	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1388
TOTAL	5.3	16.4	23.1	19.7	13.2	6.4	5.6	3.0	3.7	.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	16701
PCT	5.3	16.4	23.1	19.7	13.2	6.4	5.6	3.0	3.7	.7	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1857-1974

AREA 0041 VANCOUVER IS. SW
48.3N 126.1W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
69/70	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	8	.0
67/68	.0	.0	.0	.0	.0	.2	.3	.1	.3	.0	.0	.0	27	.1
65/66	.0	.0	.0	.0	.0	.1	.4	1.4	.6	.2	.0	.0	78	.3
63/64	.0	.0	.0	.0	.0	.4	1.6	4.8	3.5	.5	.0	.0	305	1.1
61/62	.0	.0	.0	.0	.1	1.1	6.8	11.9	7.8	1.7	.0	.1	842	2.9
59/60	.0	.0	.0	.0	.3	3.4	12.9	21.5	18.6	5.0	.3	.0	1748	6.1
57/58	.0	.1	.2	.1	1.1	11.5	25.6	22.0	19.5	12.9	1.7	.2	2636	9.2
55/56	.0	.3	.5	.3	5.5	19.8	21.1	19.6	18.9	17.1	6.0	.8	2929	10.3
53/54	.7	.5	.7	1.5	12.8	23.5	15.7	11.0	15.2	22.0	17.1	3.7	3172	11.1
51/52	2.0	2.5	1.8	5.6	25.5	25.4	10.6	5.2	9.6	21.1	29.4	11.4	3652	12.8
49/50	13.7	15.2	15.1	25.0	33.4	10.9	4.0	2.0	5.0	13.8	24.5	25.7	4232	14.8
47/48	40.4	32.4	31.0	38.9	15.7	2.6	.8	.2	.7	4.1	13.4	36.7	4559	16.0
45/46	32.2	34.0	36.6	22.2	4.5	.9	.2	.2	.1	1.6	5.6	16.9	3218	11.3
43/44	7.6	10.3	10.1	5.1	.7	.2	.1	.0	.0	.1	1.4	2.7	795	2.8
41/42	2.3	2.8	2.7	.7	.2	.0	.0	.0	.0	.0	.6	1.3	218	.8
39/40	.7	1.0	1.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	77	.3
37/38	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	20	.1
35/36	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15	.1
33/34	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8	.0
31/32	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2166	1957	2091	2054	2436	2204	3235	2966	2597	2429	2575	1834	28544	100.0
MEAN	46.7	46.5	46.6	47.7	50.4	53.6	56.0	57.4	56.4	53.5	50.7	48.2	51.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

	MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1015	1014	1013	1013	1015	1014	1014	1014	1014	2245
FEB	1015	1017	1016	1016	1016	1017	1016	1015	1016	1016	1942
MAR	1015	1017	1016	1016	1016	1017	1017	1017	1017	1016	2176
APR	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	2212
MAY	1019	1017	1018	1016	1018	1017	1019	1017	1018	1018	2452
JUN	1018	1017	1017	1017	1017	1017	1018	1017	1017	1017	2273
JUL	1020	1019	1019	1019	1019	1019	1020	1019	1019	1019	2968
AUG	1018	1018	1018	1017	1018	1018	1019	1019	1018	1018	2913
SEP	1017	1016	1017	1016	1017	1017	1017	1017	1017	1017	2524
OCT	1016	1017	1016	1015	1016	1016	1015	1015	1016	1016	2467
NOV	1015	1016	1016	1016	1017	1016	1015	1016	1016	1016	2524
DEC	1012	1013	1013	1013	1013	1014	1014	1013	1013	1013	1883
ANN	1016	1017	1016	1016	1016	1017	1017	1016	1017	1016	28579
OBS	5099	2368	4352	1769	4956	2624	4939	2472			

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	976	988	994	1006	1015	1022	1033	1036	1041
FEB	976	990	998	1010	1016	1023	1030	1036	1041
MAR	983	990	1000	1009	1017	1023	1031	1036	1041
APR	984	998	1004	1012	1018	1022	1029	1033	1037
MAY	991	1001	1007	1014	1018	1022	1027	1032	1040
JUN	994	1002	1008	1014	1017	1021	1025	1028	1037
JUL	997	1005	1012	1017	1020	1023	1027	1031	1035
AUG	994	1006	1010	1015	1018	1021	1025	1030	1035
SEP	980	998	1005	1013	1017	1022	1027	1030	1037
OCT	974	990	999	1011	1017	1022	1028	1032	1038
NOV	975	988	996	1009	1017	1024	1031	1035	1039
DEC	974	980	991	1005	1014	1022	1030	1037	1042

Volume	Area	Name	Approximate Central Location
5	30	Baja	29.4°N 117.3°W
	31	San Diego 200 SW	29.5°N 122.5°W
	32	San Diego	32.4°N 118.5°W
	33	Santa Rosa Island SW	32.5°N 122.5°W
	34	Point Mugu NW	34.9°N 122.4°W
	35	San Francisco	36.9°N 123.8°W
6	36	Point Arena	38.9°N 125.4°W
	37	Eureka	41.0°N 125.7°W
	38	Cape Blanco	43.0°N 125.7°W
	39	Newport	45.0°N 125.6°W
	40	Astoria	47.0°N 125.6°W
	41	Vancouver Island SW	48.8°N 127.0°W

47.5